

**INSERT  
INSERT**

**6**

#### W5 - ISO P35/P40

La presente qualità trova particolare impiego nelle lavorazioni in cui sia richiesta una notevole tenacità, anche con taglio interrotto ed in condizioni sfavorevoli di utilizzo.

Lavorazioni di tornitura, fresatura di getti fusi in acciaio con crosta di fusione e con inclusioni sabbiose. Si impiega con eccellenti risultati anche per la lavorazione degli acciai inossidabili.

Bassa velocità di taglio e forti sezioni di truciolo.

#### KZ08 - ISO K10/K15

La presente qualità viene impiegata esclusivamente per la costruzione di inserti per la lavorazione di ghisa in genere, ottone, rame, alluminio, leghe leggere ecc. Possiede un'ottima resistenza all'usura, grazie alla particolare granulometria di dimensione inferiore al micron, ma scarsa tenacità. Si raccomanda per quei lavori dove non siano assolutamente coinvolti urti o vibrazioni che sicuramente danneggerebbero l'utensile. Tornitura, fresatura, foratura con minimi avanzamenti ad alta velocità di taglio.

Si impiega con ottimi risultati nella fresatura di ghise dure, particolarmente abrasive.

#### WH15 - ISO K20/K30

La tenacità di questo grado rispetto alla precedente qualità KZ08 è di gran lunga superiore, grazie alla maggior quantità di cobalto. Si impiega su macchine anche non rigide con minime vibrazioni ed urti, con velocità medie e sezioni di truciolo mediogrande.

La presente qualità viene anch'essa prodotta solo per la realizzazione di inserti per tornitura, foratura e fresatura. Si raccomanda questa qualità per lavorare ghise in genere, ottone, rame, alluminio, bronzo, legno, porcellana, ecc.

#### WX25 - ISO P20/P25/P35

Questa qualità corrisponde ai gradi della scala ISO P25-P30-P35 e ciò giustifica il fatto di essere una qualità molto versatile nel campo della fresatura, tornitura, foratura. Si impiega nelle lavorazioni di acciai non legati o poco legati, acciai al carbonio con bassa resistenza e facilmente lavorabili ecc., con medio-basse velocità di taglio e passate medio-forti. Si raccomanda per tutti quei lavori generici, con asportazione di truciolo di acciai in generale e ghise a truciolo lungo. Grazie alla sua buona tenacità la si può impiegare in lavori dove siano coinvolti leggeri urti e vibrazioni.

#### W5 - ISO P35/P40

*This grade can be particularly used in workings that require a high toughness degree, even if with interrupted cutting and in unfavourable working conditions. Turning and milling works on molten steel casts with casting skin and sand inclusions.*

*It has also proved to be extremely successful in stainless steel working. Low cutting speed and strong chip section.*

#### KZ08 - ISO K10/K15

*The only field of application suitable for the above grade is represented by the manufacturing of inserts for cast iron working in general: brass, copper, aluminium, light alloys, etc.*

*Thanks to its particular grain size, which is less than 1 micron thick, this quality is highly wear resistant but not very tough. It is therefore suggested for those works without any shocks or vibrations which would certainly damage the tool.*

*High speed turning, milling, drilling with minimum feed. Besides, it can be successfully used in the milling of particularly abrasive hard cast iron.*

#### WH15 - ISO K20/K30

*The toughness degree of this grade is much higher than the one of the previous KZ08 grade, thanks to its higher content of cobalt. It is used on machines subjected to no excessive shocks or unusual vibrations, with average speeds and medium-large chip section. This grade, too, is merely produced for turning, drilling and milling inserts. It is suitable for the working of cast iron in general, brass, copper, aluminium, bronze, wood, porcelain, etc.*

#### WX25 - ISO P20/P25/P35

*This type falls into the ISO P25/P30/P35 group and, for this reason, it is an highly versatile grade as far as milling, turning and drilling are concerned. It is used for low-alloyed carbon steels characterized by low resistance and easy machinability with medium-low cutting speeds and medium-strong depths of cut. It is recommended for all generic works with chip removal of steels in general and long chip cast iron. Thanks to its good toughness, it can be suitably used in works involving light shocks and vibrations.*

**333X - ISO P20/P25/P30**

Qualità rivestite con nitruri e carbonitridi di titanio avente un sottostrato opportunamente studiato per resistere alle alte temperature di esercizio.

Si colloca nel campo ISO P20/P25/P30 ed è adatta particolarmente per lavorazioni generiche di ogni tipo di acciaio sia al carbonio che legati.

Possiede ottima resistenza all'usura, dovuta al suo rivestimento di circa 6 micron di spessore, ma scarsa tenacità; si sconsiglia dunque l'impiego in quelle lavorazioni di tornitura o fresatura ove sussistono eccessive urti e vibrazioni.

Il rivestimento si presenta di color giallo chiaro.

**333X - ISO P20/P25/P30**

*This grade is coated with titanium nitrides and carbonitrides on a substrate that has been purposely studied to resist high working temperature.*

*It falls into the ISO P20/P25/P30 group and is most suitable for mixed working on all types of steel, from carbon steel to alloyed types.*

*It is highly resistant to wear, due to its ca. 10 micron thick coating, but it is not very tough.*

*It is therefore not recommended for turning works with high vibrations and shocks.*

*The coating is light yellow in colour.*

**666X - ISO P35/P40/P45**

Qualità rivestita di carburi e carbonitridi di titanio avente un sottostrato opportunamente studiato per resistere alle forti sollecitazioni di urti, vibrazioni, anche su macchine non moderne.

Si impiega con ottimi risultati nelle lavorazioni di tornitura generica di acciai ed in particolare di inossidabili e ghise. Qualità veramente tuttofare in quanto il rivestimento di circa 6 micron garantisce ottima resistenza all'usura mentre il tenacissimo sottostrato (M30/M40) permette di affrontare qualsiasi condizione di lavoro.

Il rivestimento si presenta di color giallo chiaro.

**666X - ISO P35/P40/P45**

*This grade is coated with titanium carbides and carbonitrides on a substrate that has been suitably studied to resist high vibrations and stresses, also on old-fashioned machines.*

*It provides excellent results in general turning works of steel, specially stainless steel and cast iron.*

*It is really an all purpose quality as its ca. 6 microns thick coating provides high resistance to wear, while a very strong substrate (M30/M40) allows its use under all conditions.*

*The coating is light yellow in colour.*

**888X - ISO P30/P35/P40/P50/M20/M30**

Qualità con elevato grado di tenacità composta da una particolare granulometria del carburo di tungsteno, in grado di far fronte a quelle lavorazioni meccaniche ove siano coinvolti forti urti e vibrazioni anche su macchine non moderne.

Il rivestimento è composto da carburi e carbonitridi di titanio adatti, in particolare, per la lavorazione degli acciai, basse velocità di taglio e alti avanzamenti.

**888X - ISO P30/P35/P40/P50/M20/M30**

*Characterized by an high degree of toughness, this grade is made of a particular grainsize of the tungsten carbide, which makes it suitable for those machinings with shocks and vibrations, also on old-fashioned machines.*

*Its coating is composed of titanium carbides and carbonitrides which turn out to be suitable for steel working, particularly at low cutting speeds and with high feed.*

**666S - ISO P30/P40/P45/P50**

Spessore del rivestimento di ~2,5 micron con un sottostrato molto tenace adatto per fresatura sia di acciaio inossidabile che per lavorazioni a basse velocità di taglio e alti avanzamenti, si contraddistingue proprio per la sua versatilità d'impiego.

**666S - ISO P30/P40/P45/P50**

*Characterized by ca. 2/2.5 microns thick coating and a very tough substrate which proves to be suitable for both stainless steel milling and work processes with low cutting speeds and high feed.*

*It stands out among many other qualities for its versatility of application.*

**A99 - ISO P20/P25/P30/K10/K20**

Qualità particolarmente adatta per lavorazioni di tornitura e fresatura di ghisa in generale e di acciai ad alta velocità da taglio.

Composta da un sottostrato (M15/M20) con buona resistenza all'usura e rivestita con composti intervallati di ossido di alluminio (Allumina -  $Al_2O_3$ ) e carburo di titanio (TiC) che conferiscono all'inserto eccezionali proprietà di resistenza all'usura.

Lo spessore del rivestimento è di circa 6 micron ed è di colore grigio scuro. È una qualità abbastanza rigida, quindi si raccomanda l'impiego in condizioni favorevoli ossia senza eccessivi urti o vibrazioni.

**A155 - ISO P05/P10/P20/K05/K10/K15**

Qualità con altissima resistenza all'usura, ma di scarsa tenacità grazie al suo particolare sottostrato che ne garantisce una lunga durata del tagliente. Si raccomanda l'impiego su macchine a controllo numerico ad alte velocità e basse asportazioni.

Il rivestimento è composto da strati di ossido di alluminio (Allumina -  $Al_2O_3$ ), carburo di titanio (TiC) e nitruro di titanio (TiN).

**A355 - ISO P20/P30/K15/K20**

Simile alla precedente qualità per quanto riguarda il tipo di rivestimento ma si differenzia per il sottostrato tenace.

Si raccomanda questa qualità su macchine a controllo numerico ad alte velocità di taglio e medie asportazioni. Grazie alla non eccessiva durezza, si colloca nel campo di applicazione standard P20/P25/P30/K20 facendone così una qualità universale.

**Ti25 - ISO P15/P25**

Qualità rivestita di carburi e carbonitridi di titanio, impiegata esclusivamente per la realizzazione di inserti adatti alle operazioni di filettatura.

**WN130 - ISO G2/G3**

Qualità impiegata nella realizzazione di sottoplacchette per inserti.

**A99 - ISO P20/P25/P30/K10/K20**

*This grade can be used with very good results in turning and milling works of cast iron in general and high cutting speed steels.*

*It is made of a substrate resistant to wear (M15/M20) and coated in turn with aluminium oxide (Alumina  $Al_2O_3$ ) and titanium carbide (TiC), which give the insert exceptional properties of resistance to wear.*

*The coating thickness is of ca. 6 micron and looks dark grey in colour.*

*This is a rather tough grade and therefore its use is recommended in favourable working conditions, that is, when no excessive shock vibrations are present.*

**A155 - ISO P05/P10/P20/K05/K10/K15**

*It has excellent wearproof properties, but rather poor toughness. Thanks to both its particular coating and substrate, this grade guarantees a rather long life of the cutting edge. We recommend its use on numeric control machines with high speeds and light chip removal.*

*Its coating is made of aluminium oxide (Alumina  $Al_2O_3$ ) layers together with titanium carbide (TiC) and titanium nitride (TiN).*

**A355 - ISO P20/P30/K15/K20**

*Due to its coating type, this is similar to the previous grade, but it differs from it for its tough substrate.*

*This grade is recommended on numeric control machines with high cutting speeds and medium chip removal.*

*Thanks to its not excessive hardness, it falls into standard P20/P25/P30/K20 application field, turning it into an universal grade.*

**Ti25 - ISO P15/P25**

*Titanium carbides and carbonitrides coated grade, exclusively used in the manufacture of threading inserts.*

**WN130 - ISO G2/G3**

*Grade used in the manufacture of shims for inserts.*



# INSERTI PER TORNITURA / TURNING INSERTS

INSERTI  
INSERTS

### 1 FORMA INSERTO INSERT SHAPE

<b>H</b>	<b>O</b>	<b>P</b>	<b>R</b>
<b>S</b>	<b>T</b>	<b>C</b>	<b>D</b>
<b>E</b>	<b>M</b>	<b>V</b>	<b>L</b>
<b>A</b>	<b>B</b>	<b>K</b>	

### 2 ANGOLO DI SPOGLIA CLEARANCE ANGLE

<b>A</b>	<b>B</b>	<b>C</b>
<b>D</b>	<b>E</b>	<b>F</b>
<b>G</b>	<b>N</b>	<b>P</b>

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>S</b>	<b>N</b>	<b>M</b>	<b>G</b>

### 3 TOLLERANZE TOLERANCES

	m	s	d
<b>A</b>	±0,005 <sup>1)</sup>	±0,025	±0,025
<b>F</b>	±0,005 <sup>1)</sup>	±0,025	±0,013
<b>C</b>	±0,013	±0,025	±0,025
<b>H</b>	±0,013	±0,025	±0,013
<b>E</b>	±0,025	±0,025	±0,025
<b>G</b>	±0,025	±0,13	±0,025
<b>J</b>	±0,005 <sup>1)</sup>	±0,025	da/from: ±0,05 <sup>2)</sup> a/to: ±0,13 <sup>3)</sup>
<b>K</b>	±0,013 <sup>1)</sup>	±0,025	da/from: ±0,05 <sup>2)</sup> a/to: ±0,13 <sup>3)</sup>
<b>L</b>	±0,025	±0,025	da/from: ±0,05 <sup>2)</sup> a/to: ±0,13 <sup>3)</sup>
<b>M</b>	da/from: ±0,08 <sup>2)</sup> a/to: ±0,18 <sup>3)</sup>	±0,13	da/from: ±0,05 <sup>2)</sup> a/to: ±0,13 <sup>3)</sup>
<b>U</b>	da/from: ±0,13 <sup>2)</sup> a/to: ±0,38 <sup>3)</sup>	±0,13	da/from: ±0,08 <sup>2)</sup> a/to: ±0,25 <sup>3)</sup>

### 4 TIPO DI INSERTO TYPE OF INSERT

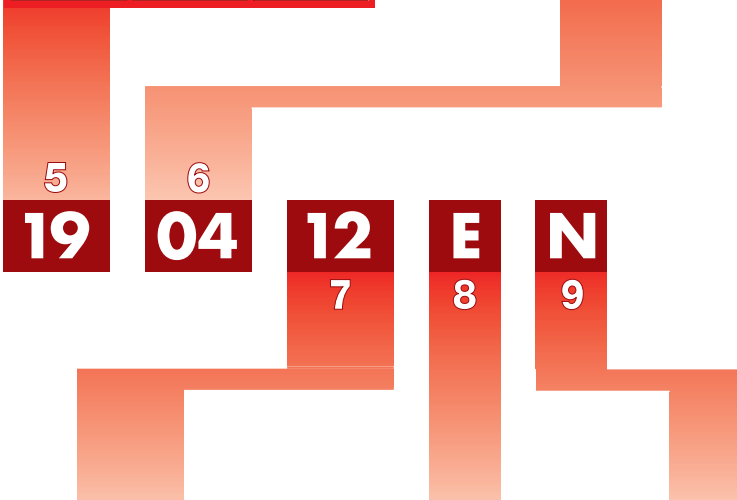
<b>A</b>	<b>F</b>
<b>G</b>	<b>M</b>
<b>N</b>	<b>R</b>
CONFIGURAZIONE SPECIALE SPECIAL CONFIGURATION	
<b>X</b>	



INSERTI  
INSERTS

5 LUNGHEZZA TAGLIANTE CUTTING EDGE LENGTH		
<b>H</b>	<b>O</b>	<b>P</b>
<b>R</b>	<b>S</b>	<b>T</b>
<b>C-D-E-M-V</b>	<b>L</b>	<b>A-B-K</b>

6 SPESSORE THICKNESS	



5  
**19**

6  
**04**

**12**  
7

**E**  
8

**N**  
9

7	RAGGIO RADIUS
00	Inserto tondo/Round insert
00	Vertice teorico/Theoretical vertex
02	0,2 mm
04	0,4 mm
05	0,5 mm
08	0,8 mm
10	1,0 mm
12	1,2 mm
15	1,5 mm
16	1,6 mm
24	2,4 mm
32	3,2 mm
40	4,0 mm

8	TAGLIANTE CUTTING EDGE
	<b>F</b>
	<b>E</b>
	<b>T</b>
	<b>S</b>

9	VERSIONE VERSION
	<b>R</b>
	<b>L</b>
	<b>N</b>

# INSERTI PER FRESATURA / MILLING INSERTS

INSERTI  
INSERTS

1 FORMA INSERTO INSERT SHAPE			
<b>H</b>	<b>O</b>	<b>P</b>	<b>R</b>
<b>S</b>	<b>T</b>	<b>C</b>	<b>D</b>
<b>E</b>	<b>M</b>	<b>V</b>	<b>L</b>
<b>A</b>	<b>B</b>	<b>K</b>	<b>W</b>

2 ANGOLO DI SPOGLIA CLEARANCE ANGLE		
<b>A</b>	<b>B</b>	<b>C</b>
<b>D</b>	<b>E</b>	<b>F</b>
<b>G</b>	<b>N</b>	<b>P</b>

1
2

T
P
K
N

3
4

3 TOLLERANZE TOLERANCES			
	m	s	d
<b>A</b>	±0,005 <sup>1)</sup>	±0,025	±0,025
<b>F</b>	±0,005 <sup>1)</sup>	±0,025	±0,013
<b>C</b>	±0,013	±0,025	±0,025
<b>H</b>	±0,013	±0,025	±0,013
<b>E</b>	±0,025	±0,025	±0,025
<b>G</b>	±0,025	±0,13	±0,025
<b>J</b>	±0,005 <sup>1)</sup>	±0,025	da/from: ±0,05 <sup>2)</sup> a/to: ±0,13 <sup>2)</sup>
<b>K</b>	±0,013 <sup>1)</sup>	±0,025	da/from: ±0,05 <sup>2)</sup> a/to: ±0,13 <sup>2)</sup>
<b>L</b>	±0,025	±0,025	da/from: ±0,05 <sup>2)</sup> a/to: ±0,13 <sup>2)</sup>
<b>M</b>	da/from: ±0,08 <sup>2)</sup> a/to: ±0,18 <sup>2)</sup>	±0,13	da/from: ±0,05 <sup>2)</sup> a/to: ±0,13 <sup>2)</sup>
<b>U</b>	da/from: ±0,13 <sup>2)</sup> a/to: ±0,38 <sup>2)</sup>	±0,13	da/from: ±0,08 <sup>2)</sup> a/to: ±0,25 <sup>2)</sup>

4 ROMPIRUCIOLO CHIP BREAKER	
<b>N</b>	<b>R</b>
<b>F</b>	<b>A</b>
<b>M</b>	<b>G</b>
<b>N</b>	<b>R</b>
<b>A</b>	<b>M</b>
PER CONDIZIONI SPECIALI FOR SPECIAL CONDITIONS	
<b>X</b>	



INSERTI  
 INSERTS

### 5 GRANDEZZA INSERTO INSERT SIZE

<b>H</b>	<b>O</b>	<b>P</b>	<b>R</b>
<b>S</b>	<b>T</b>	<b>L</b>	
<b>A-B-K</b>	<b>C-D-E-M-V</b>	<b>W</b>	

### 6 SPESSORE THICKNESS


5  
**16**

6  
**03**

**PD**  
7

**E**  
8

**R**  
9

### 7 ANGOLO DI DIREZIONE E SPOGLIA DIRECTION AND CLEARANCE ANGLE

**A = 45°**  
**D = 60°**  
**E = 75°**  
**F = 85°**  
**P = 90°**

**A = 3°**  
**B = 5°**  
**C = 7°**  
**D = 15°**  
**E = 20°**  
**F = 25°**  
**G = 30°**  
**N = 0°**  
**P = 11°**

### 8 TAGLIENTI CUTTING EDGE

	<b>F</b>
<b>VIVO / SHARP</b>	
	<b>E</b>
<b>ARROTONDATO / ROUNDED OFF</b>	
	<b>T</b>
<b>SMUSSATO / CHAMFERED</b>	
	<b>S (T+E)</b>
<b>SMUSSATO E ARROTONDATO CHAMFERED AND ROUNDED OFF</b>	

### 9 DIREZIONE TAGLIO CUTTING DIRECTION

	<b>R</b>
<b>DESTRO / RIGHT</b>	
	<b>N</b>
<b>NEUTRO / NEUTRAL</b>	
	<b>L</b>
<b>SINISTRO / LEFT</b>	



## ADLT



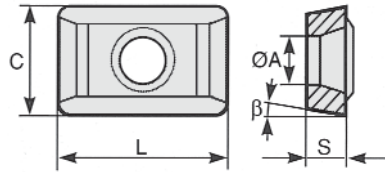
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	L	C	ØA	S	β
<b>ADLT 150308 R</b>	15,00	9,52	4,40	3,18	15°

## CCMT



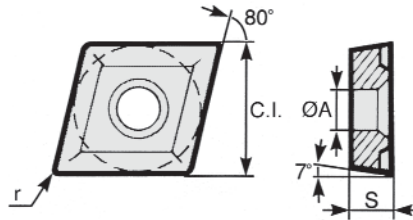
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	C.I.	ØA	S	r
<b>CCMT 09T308</b>	9,52	4,4	3,97	0,8

INSERTI  
INSERTS

## CNMA



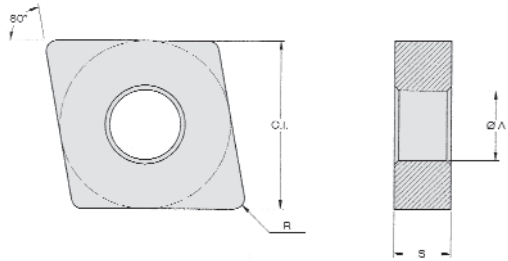
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>ØA</b>	<b>S</b>	<b>R</b>
<b>CNMA 120404</b>	12,70	5,16	4,76	0,4
<b>CNMA 120408</b>	12,70	5,16	4,76	0,8
<b>CNMA 120412</b>	12,70	5,16	4,76	1,2
<b>CNMA 190608</b>	19,05	7,94	6,35	0,8
<b>CNMA 190612</b>	19,05	7,94	6,35	1,2
<b>CNMA 190616</b>	19,05	7,94	6,35	1,6

## CNMG



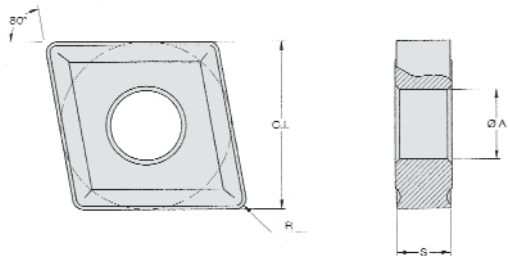
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>ØA</b>	<b>S</b>	<b>R</b>
<b>CNMG 120404</b>	12,70	5,16	4,76	0,4
<b>CNMG 120408</b>	12,70	5,16	4,76	0,8
<b>CNMG 120412</b>	12,70	5,16	4,76	1,2
<b>CNMG 120416</b>	12,70	5,16	4,76	1,6
<b>CNMG 160612</b>	15,87	6,35	6,35	1,2
<b>CNMG 190612</b>	19,05	7,94	6,35	1,2
<b>CNMG 190616</b>	19,05	7,94	6,35	1,6
<b>CNMG 250924</b>	25,40	9,12	9,52	2,4

## CNMG-16



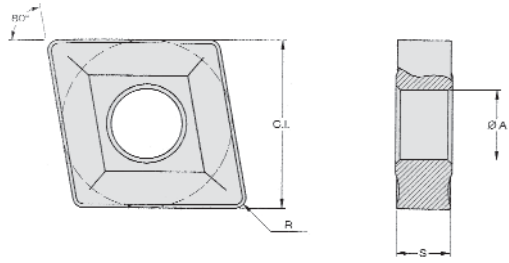
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	R
CNMG 190612-16	19,05	7,94	6,35	1,2

## CNMG-90



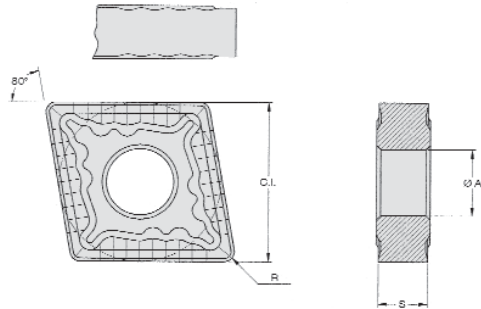
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	R
CNMG 120408-90	12,70	5,16	4,76	0,8
CNMG 120412-90	12,70	5,16	4,76	1,2



INSERTI  
INSERTS

## CNMG-S



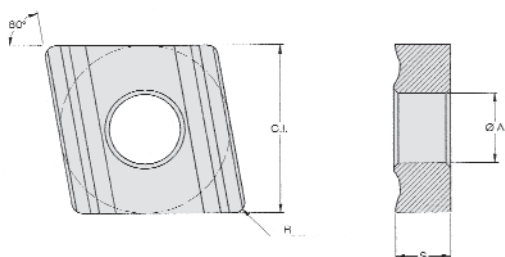
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>ØA</b>	<b>S</b>	<b>R</b>
<b>CNMG 120404R-S</b>	12,70	5,16	4,76	0,4
<b>CNMG 120404L-S</b>	12,70	5,16	4,76	0,4
<b>CNMG 120408R-S</b>	12,70	5,16	4,76	0,8
<b>CNMG 120408L-S</b>	12,70	5,16	4,76	0,8

## CNMM-20P



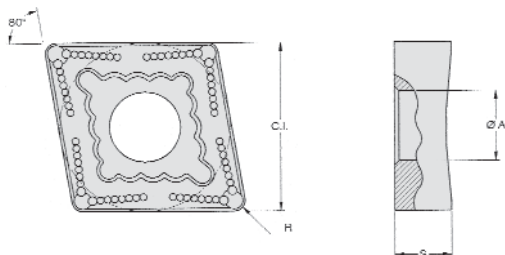
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>ØA</b>	<b>S</b>	<b>R</b>
<b>CNMM 190616-20P</b>	19,05	7,94	6,35	1,6

## CNMM-U



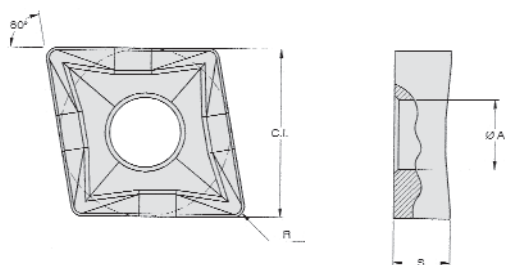
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>ØA</b>	<b>S</b>	<b>R</b>
<b>CNMM 120412-U</b>	12,70	5,16	4,76	1,2
<b>CNMM 160612-U</b>	15,88	6,35	6,35	1,2
<b>CNMM 190616-U</b>	19,05	7,94	6,35	1,6

## CNMX-14P



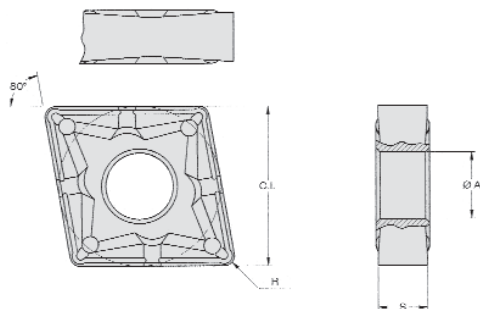
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>ØA</b>	<b>S</b>	<b>R</b>
<b>CNMX 120404-14P</b>	12,70	5,16	4,76	0,4
<b>CNMX 120408-14P</b>	12,70	5,16	4,76	0,8
<b>CNMX 120412-14P</b>	12,70	5,16	4,76	1,2
<b>CNMX 190612-14P</b>	19,05	7,94	6,35	1,2

INSERTI  
INSERTS

## DCMT



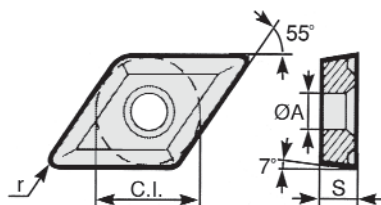
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>ØA</b>	<b>S</b>	<b>r</b>
<b>DCMT 11T308</b>	9,52	4,4	3,97	0,8

## DNMG



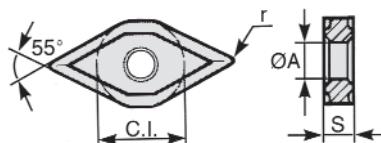
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>ØA</b>	<b>S</b>	<b>r</b>
<b>DNMG 150604</b>	12,70	5,16	6,35	0,4
<b>DNMG 150608</b>	12,70	5,16	6,35	0,8
<b>DNMG 150612</b>	12,70	5,16	6,35	1,2
<b>DNMG 150616</b>	12,70	5,16	6,35	1,6
<b>DNMG 190612</b>	15,88	6,35	6,35	1,2

## DNMG-S



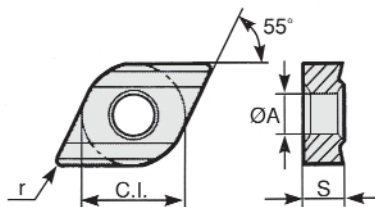
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	r
<b>DNMG 150604R-S</b>	12,70	5,16	6,35	0,4
<b>DNMG 150604L-S</b>	12,70	5,16	6,35	0,4
<b>DNMG 150608R-S</b>	12,70	5,16	6,35	0,8
<b>DNMG 150608L-S</b>	12,70	5,16	6,35	0,8

## DNMX-14P



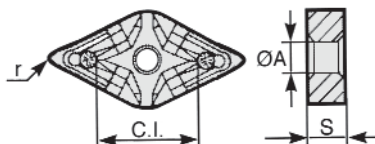
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

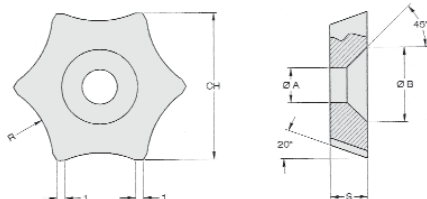
CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	r
<b>DNMX 150604-14P</b>	12,70	5,16	6,35	0,4
<b>DNMX 150608-14P</b>	12,70	5,16	6,35	0,8
<b>DNMX 150612-14P</b>	12,70	5,16	6,35	1,2

INSERTI  
INSERTS

## HEMX

 SCORDONATURA  
WELDING REMOVER

 RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	CH	ØA	ØB	S	R
HEMX 1305 R ...	22,00	5,20	11,20	5,20	.....

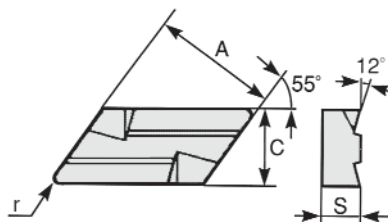
Il valore di R è dato dalla richiesta del cliente / "R" by request

## KNUX

 TORNITURA  
TURNING

 NON RIVESTITO  
UNCOATED

 RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	A	D	S	r
KNUX 160405 R11	16,15	9,52	4,76	0,5
KNUX 160405 L11	16,15	9,52	4,76	0,5
KNUX 160410 R11	16,15	9,52	4,76	1,0
KNUX 160410 L11	16,15	9,52	4,76	1,0
KNUX 160405 R12	16,15	9,52	4,76	0,5
KNUX 160405 L12	16,15	9,52	4,76	0,5
KNUX 160410 R11	16,15	9,52	4,76	1,0
KNUX 160410 L12	16,15	9,52	4,76	1,0



## RCMX



TORNITURA  
TURNING



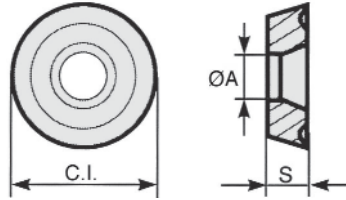
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)		
	C.I.	ØA	S
RCMX 100300	10	3,6	3,18
RCMX 120400	12	4,2	4,76
RCMX 160600	16	5,2	6,35
RCMX 200600	20	6,5	6,35
RCMX 250700	25	7,2	7,94
RCMX 320900	32	9,5	9,52

## SCMA



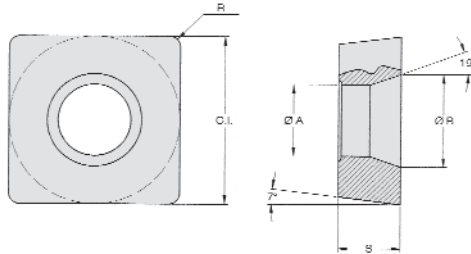
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)				
	C.I.	ØA	ØB	S	R
SCMA 090404	9,52	4,4	5,5	4,0	0,4
SCMA 090408	9,52	4,4	5,5	4,0	0,8
SCMA 120508	12,70	5,4	7,0	5,0	0,8

INSERTI  
INSERTS

## SCMM



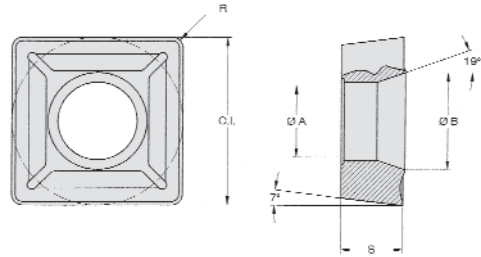
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

**SCMM 090404**

**C.I.**

**ØA**

**ØB**

**S**

**R**

**SCMM 090408**

9,52

4,4

5,5

4

0,4

9,52

4,4

5,5

4

0,8



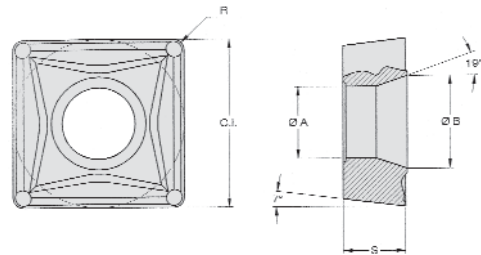
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

**SCMM 120508**

**C.I.**

**ØA**

**ØB**

**S**

**R**

12,7

5,4

7,0

5

0,8

## SCMM-G



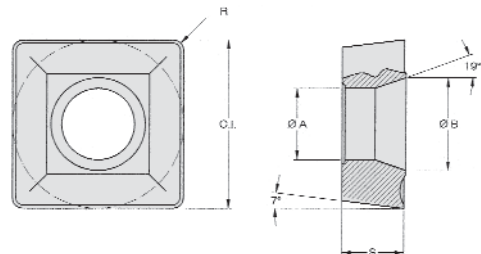
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

**SCMM 120508-G**

**C.I.**

**ØA**

**ØB**

**S**

**R**

12,70

5,4

7,0

5,0

0,8

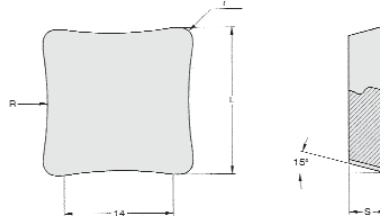
# SDUX



SCORDONATURA  
WELDING REMOVER



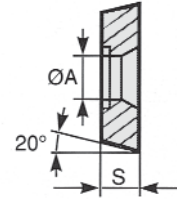
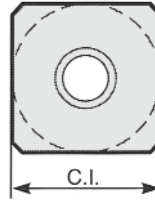
RIVESTITO  
COATED



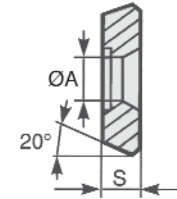
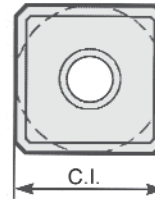
CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	L	S	R	r
SDUX 190416-15	19,05	4,76	15	1,6
SDUX 190416-20	19,05	4,76	20	1,6
SDUX 190416-25	19,05	4,76	25	1,6
SDUX 190416-28	19,05	4,76	28	1,6
SDUX 190416-35	19,05	4,76	35	1,6
SDUX 190416-45	19,05	4,76	45	1,6
SDUX 190416-55	19,05	4,76	55	1,6
SDUX 190416-75	19,05	4,76	75	1,6



INSERTI  
INSERTS

**SEHX-F**FRESATURA  
MILLINGNON RIVESTITO  
UNCOATEDRIVESTITO  
COATED

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)		
	C.I.	ØA	S
SEHX 1204-F	12,70	5,4	4,76
SEHX 1504-F	15,88	5,4	4,76

**SEHX-T**FRESATURA  
MILLINGNON RIVESTITO  
UNCOATEDRIVESTITO  
COATED

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)		
	C.I.	ØA	S
SEHX 1204-T	12,70	5,40	4,76
SEHX 1504-T	15,88	5,40	4,76

## SEKN-F



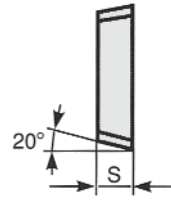
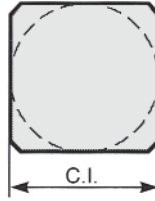
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	DIMENSIONI - DIMENSIONS (mm)	
	C.I.	S
<b>SEKN 1203 AFFN</b>	12,70	3,18
<b>SEKN 1504 AFFN</b>	15,88	4,76

## SEKN-T



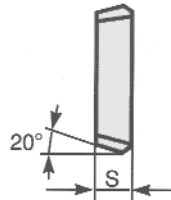
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	DIMENSIONI - DIMENSIONS (mm)	
	C.I.	S
<b>SEKN 1203 AFTN</b>	12,70	3,18
<b>SEKN 1504 AFTN</b>	15,88	4,76

INSERTI  
 INSERTS

## SEM-N-F



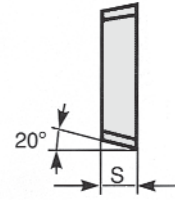
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

**C.I.**

**S**

**SEM-N 1203 AFFN**

12,70

3,18

**SEM-N 1204 AFFN**

12,70

4,76

## SNMA



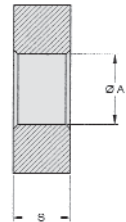
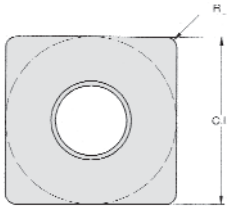
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

**C.I.**

**ØA**

**S**

**R**

**SNMA 090304**

9,52

3,81

3,18

0,4

**SNMA 090308**

9,52

3,81

3,18

0,8

**SNMA 120404**

12,70

5,16

4,76

0,4

**SNMA 120408**

12,70

5,16

4,76

0,8

**SNMA 120412**

12,70

5,16

4,76

1,2

**SNMA 120416**

12,70

5,16

4,76

1,6

**SNMA 120450**

12,70

5,16

4,76

5,0

**SNMA 190608**

19,05

7,94

6,35

0,8

**SNMA 190612**

19,05

7,94

6,35

1,2

**SNMA 190616**

19,05

7,94

6,35

1,6

**SNMA 250724**

25,40

9,12

7,94

2,4

## SNMG



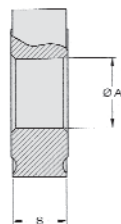
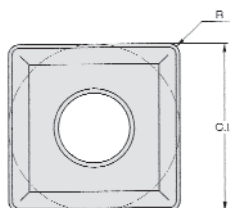
TORNITURA  
TURNING



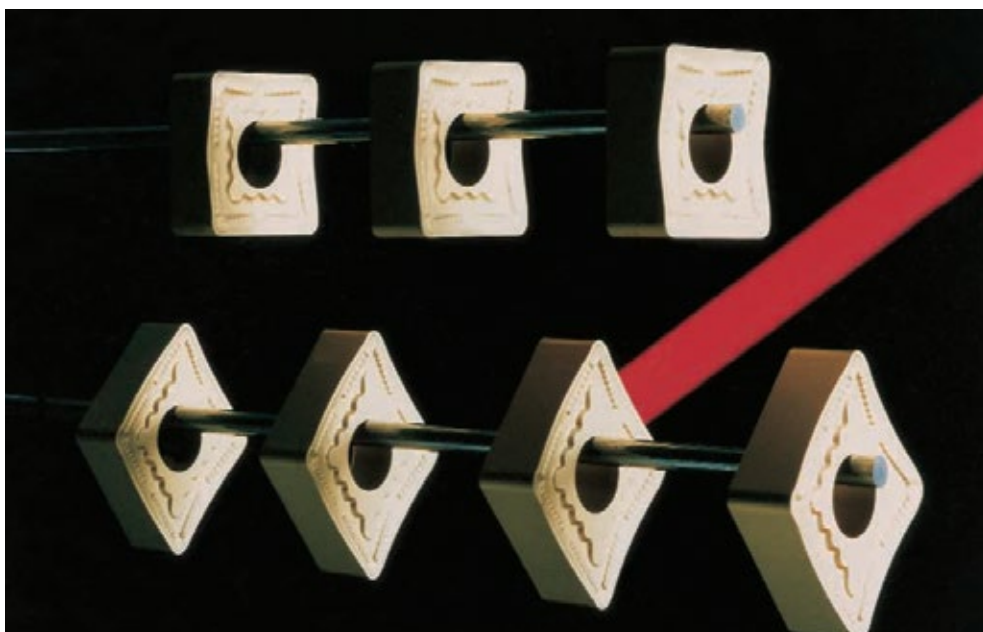
NON RIVESTITO  
UNCOATED



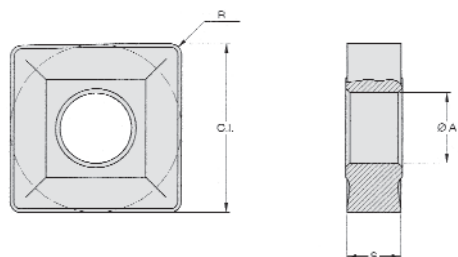
RIVESTITO  
COATED



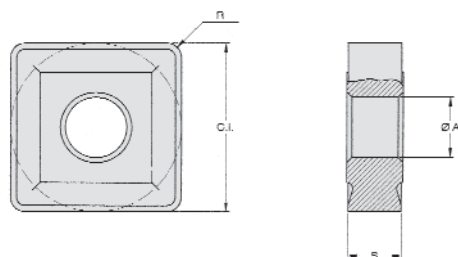
CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	R
SNMG 090304	9,52	3,81	3,18	0,4
SNMG 090308	9,52	3,81	3,18	0,8
SNMG 120404	12,70	5,16	4,76	0,4
SNMG 120408	12,70	5,16	4,76	0,8
SNMG 120412	12,70	5,16	4,76	1,2
SNMG 120416	12,70	5,16	4,76	1,6
SNMG 150612	15,87	6,35	6,35	1,2
SNMG 190612	19,05	7,93	6,35	1,2
SNMG 190616	19,05	7,93	6,35	1,6
SNMG 250724	25,40	9,12	7,94	2,4
SNMG 250924	25,40	9,12	9,52	2,4



INSERTI  
INSERTS

**SNMG-13**TORNITURA  
TURNINGNON RIVESTITO  
UNCOATEDRIVESTITO  
COATED**CODICE  
CODE****DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>ØA</b>	<b>S</b>	<b>R</b>
<b>SNMG 190616-13</b>	19,05	7,94	6,35	1,6

**SNMG-16**TORNITURA  
TURNINGNON RIVESTITO  
UNCOATEDRIVESTITO  
COATED**CODICE  
CODE****DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>ØA</b>	<b>S</b>	<b>R</b>
<b>SNMG 250724-16</b>	25,40	9,12	7,94	2,4
<b>SNMG 250924-16</b>	25,40	9,12	9,52	2,4



## SNMG-S



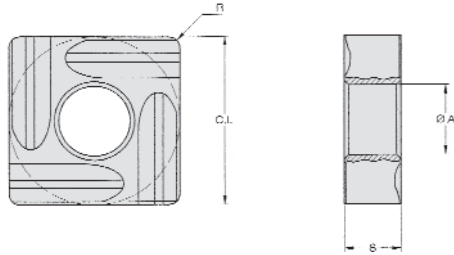
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	R
<b>SNMG 120404R-S</b>	12,70	5,16	4,76	0,4
<b>SNMG 120404L-S</b>	12,70	5,16	4,76	0,4
<b>SNMG 120408R-S</b>	12,70	5,16	4,76	0,8
<b>SNMG 120408L-S</b>	12,70	5,16	4,76	1,8
<b>SNMG 120412R-S</b>	12,70	5,16	4,76	1,2
<b>SNMG 120412L-S</b>	12,70	5,16	4,76	1,2

## SNMM-20P



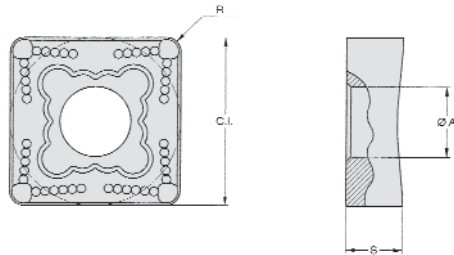
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	R
<b>SNMM 190616-20P</b>	19,05	7,94	6,35	1,6

INSERTI  
INSERTS

## SNMM-G



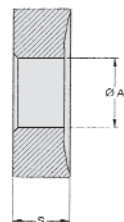
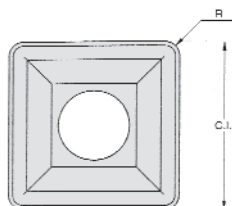
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>ØA</b>	<b>S</b>	<b>R</b>
<b>SNMM 190616-G</b>	19,05	7,94	6,35	1,6
<b>SNMM 270724-G</b>	25,40	9,12	7,94	2,4
<b>SNMM 270924-G</b>	25,40	9,12	9,52	2,4

## SNMM-K



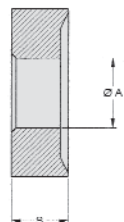
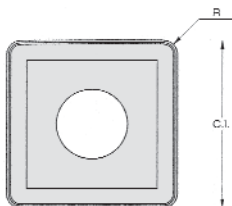
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>ØA</b>	<b>S</b>	<b>R</b>
<b>SNMM 190616-K</b>	19,05	7,94	6,35	1,6
<b>SNMM 250724-K</b>	25,40	9,12	7,94	2,4
<b>SNMM 250924-K</b>	25,40	9,12	9,52	2,4

## SNMM-U



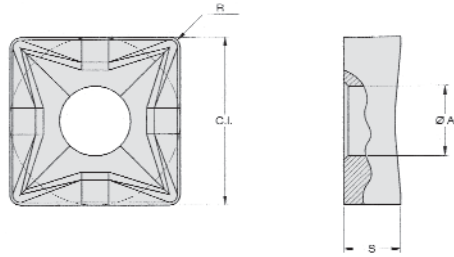
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	R
SNMM 120408-U	12,70	5,16	4,76	0,8
SNMM 120412-U	12,70	5,16	4,76	1,2
SNMM 190612-U	19,05	7,94	6,35	1,2
SNMM 190616-U	19,05	7,94	6,35	1,6
SNMM 190624-U	19,05	7,94	6,35	2,4

## SNMM-V



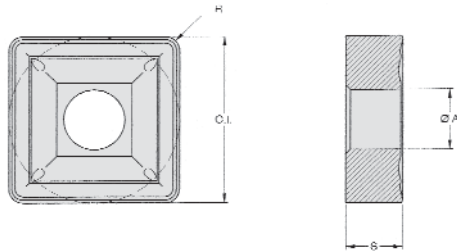
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	R
SNMM 250724-V	25,40	9,12	7,94	2,4
SNMM 250924-V	25,40	9,12	9,52	2,4



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INSERTS

## SNMX-14P



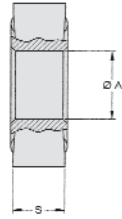
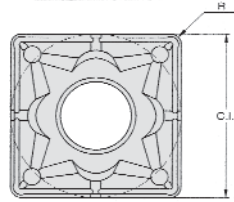
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



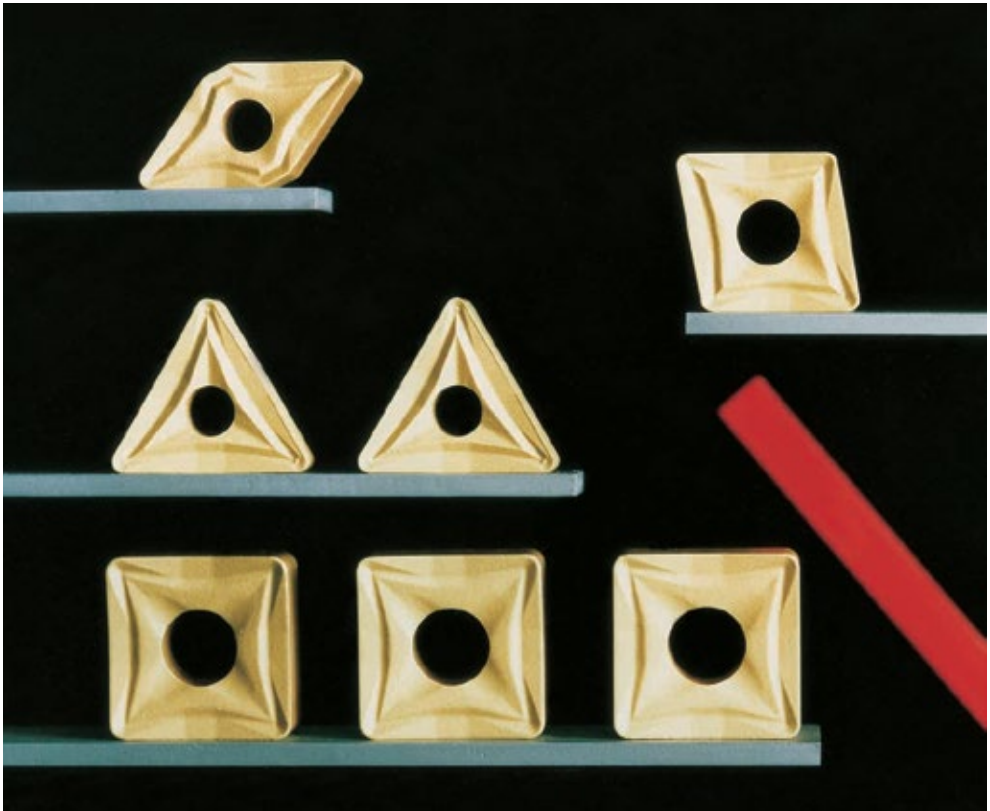
RIVESTITO  
COATED



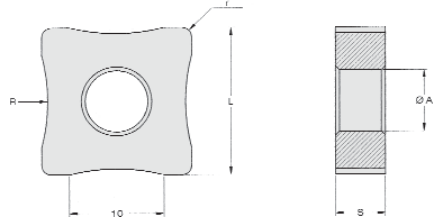
**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	R
SNMX 120408-14P	12,70	5,16	4,76	0,8



## SNMX-21



INSERTI  
INSERTS

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)				
	L	ØA	S	R	r
SNMX21-R11	15,87	5,16	6,35	11	0,8
SNMX21-R13	15,87	5,16	6,35	13	0,8
SNMX21-R15	15,87	5,16	6,35	15	0,8
SNMX21-R18	15,87	5,16	6,35	18	0,8
SNMX21-R20	15,87	5,16	6,35	20	0,8
SNMX21-R22	15,87	5,16	6,35	22	0,8
SNMX21-R25	15,87	5,16	6,35	25	0,8
SNMX21-R27	15,87	5,16	6,35	27	0,8
SNMX21-R30	15,87	5,16	6,35	30	0,8
SNMX21-R35	15,87	5,16	6,35	35	0,8
SNMX21-R40	15,87	5,16	6,35	40	0,8
SNMX21-R42	15,87	5,16	6,35	42	0,8
SNMX21-R45	15,87	5,16	6,35	45	0,8
SNMX21-R50	15,87	5,16	6,35	50	0,8
SNMX21-R60	15,87	5,16	6,35	60	0,8
SNMX21-R65	15,87	5,16	6,35	65	0,8
SNMX21-R70	15,87	5,16	6,35	70	0,8
SNMX21-R75	15,87	5,16	6,35	75	0,8
SNMX21-R80	15,87	5,16	6,35	80	0,8
SNMX21-R90	15,87	5,16	6,35	90	0,8
SNMX21-R105	15,87	5,16	6,35	105	0,8
SNMX21-R120	15,87	5,16	6,35	120	0,8

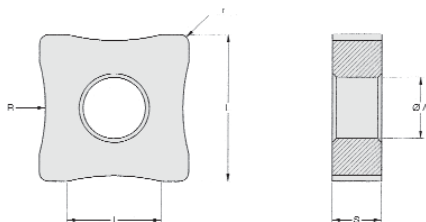
## SNMX-21-19



SCORDONATURA  
WELDING REMOVER



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)					
	L	ØA	S	R	l	r
SNMX 190612 R 15	19,05	6,35	6,35	15	12	1,2
SNMX 190612 R 20	19,05	6,35	6,35	20	12	1,2
SNMX 190612 R 30	19,05	6,35	6,35	30	12	1,2
SNMX 190612 R 40	19,05	6,35	6,35	40	12	1,2
SNMX 190612 R 50	19,05	6,35	6,35	50	12	1,2
SNMX 190612 R 60	19,05	6,35	6,35	60	12	1,2
SNMX 190612 R 70	19,05	6,35	6,35	70	12	1,2
SNMX 190612 R 80	19,05	6,35	6,35	80	12	1,2
SNMX 190612 R 90	19,05	6,35	6,35	90	12	1,2

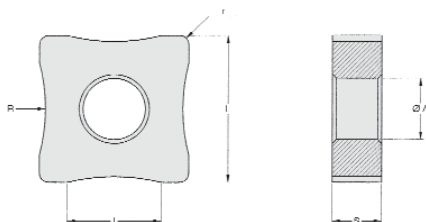
## SNMX-21-25



SCORDONATURA  
WELDING REMOVER



RIVESTITO  
COATED

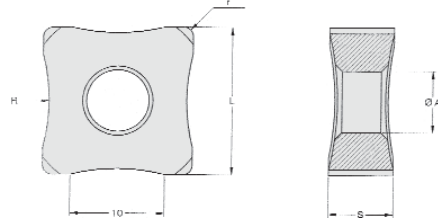


CODICE CODE	DIMENSIONI - DIMENSIONS (mm)					
	L	ØA	S	R	l	r
SNMX 250924 R 60	25,40	9,12	9,52	60	18	2,4
SNMX 250924 R 100	25,40	9,12	9,52	100	18	2,4
SNMX 250924 R 160	25,40	9,12	9,52	160	18	2,4

## SNMX-22

 SCORDONATURA  
WELDING REMOVER

 RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)				
	L	ØA	S	R	r
SNMX22-R9	15,87	5,16	7,94	9	0,8
SNMX22-R13	15,87	5,16	7,94	13	0,8
SNMX22-R15	15,87	5,16	7,94	15	0,8
SNMX22-R18	15,87	5,16	7,94	18	0,8
SNMX22-R20	15,87	5,16	7,94	20	0,8
SNMX22-R22	15,87	5,16	7,94	22	0,8
SNMX22-R25	15,87	5,16	7,94	25	0,8
SNMX22-R27	15,87	5,16	7,94	27	0,8
SNMX22-R30	15,87	5,16	7,94	30	0,8
SNMX22-R35	15,87	5,16	7,94	35	0,8
SNMX22-R40	15,87	5,16	7,94	40	0,8
SNMX22-R42	15,87	5,16	7,94	42	0,8
SNMX22-R45	15,87	5,16	7,94	45	0,8
SNMX22-R50	15,87	5,16	7,94	50	0,8
SNMX22-R60	15,87	5,16	7,94	60	0,8
SNMX22-R70	15,87	5,16	7,94	70	0,8
SNMX22-R75	15,87	5,16	7,94	75	0,8
SNMX22-R90	15,87	5,16	7,94	90	0,8

INSERTI  
INSERTS

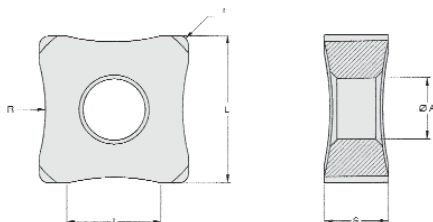
## SNMX-22-19



SCORDONATURA  
WELDING REMOVER



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)					
	L	ØA	S	R	l	r
SNMX 190912 R 15	19,05	6,35	9,52	15	12	1,2
SNMX 190912 R 20	19,05	6,35	9,52	20	12	1,2
SNMX 190912 R 30	19,05	6,35	9,52	30	12	1,2
SNMX 190912 R 40	19,05	6,35	9,52	40	12	1,2
SNMX 190912 R 50	19,05	6,35	9,52	50	12	1,2
SNMX 190912 R 60	19,05	6,35	9,52	60	12	1,2
SNMX 190912 R 70	19,05	6,35	9,52	70	12	1,2
SNMX 190912 R 80	19,05	6,35	9,52	80	12	1,2
SNMX 190912 R 90	19,05	6,35	9,52	90	12	1,2

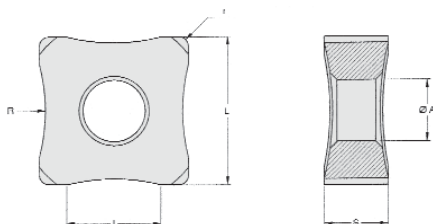
## SNMX-22-25



SCORDONATURA  
WELDING REMOVER



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)					
	L	ØA	S	R	l	r
SNMX 251224 R 60	25,40	9,12	12,70	60	18	2,4
SNMX 251224 R 100	25,40	9,12	12,70	100	18	2,4
SNMX 251224 R 160	25,40	9,12	12,70	160	18	2,4



## SNUN



TORNITURA  
TURNING



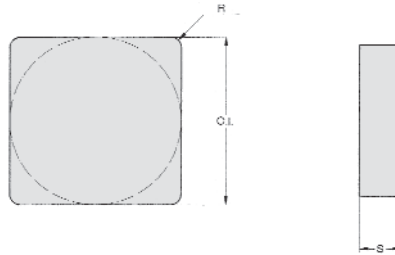
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)		
	C.I.	S	R
SNUN 120408	12,70	4,76	0,8
SNUN 120412	12,70	4,76	1,2

## SPKN-F



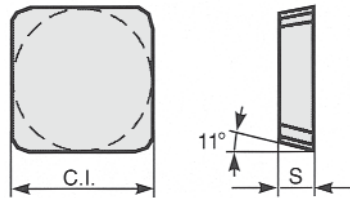
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)	
	C.I.	S
SPKN 1203 EDFR	12,70	3,18
SPKN 1504 EDFR	15,88	4,76
SPKN 1504 EDFL	15,88	4,76



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## SPKN-T



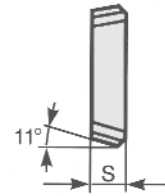
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

**C.I.**

**S**

**SPKN 1203 EDTR**

12,70

3,18

**SPKN 1504 EDTR**

15,88

4,76

## SPMA



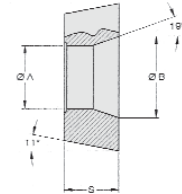
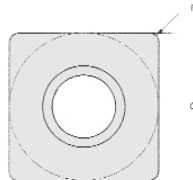
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

**C.I.**

**ØA**

**ØB**

**S**

**R**

**SPMA 090308**

9,52

4,40

5,50

3,18

0,8

**SPMA 120408**

12,70

5,40

7,00

4,76

0,8

**SPMA 150408**

15,88

5,40

7,00

4,76

0,8

## SPMR



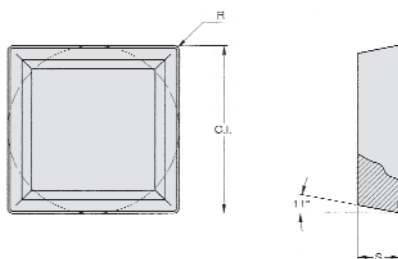
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	DIMENSIONI - DIMENSIONS (mm)		
	C.I.	S	R
<b>SPMR 090304</b>	9,52	3,18	0,4
<b>SPMR 120304</b>	12,70	3,18	0,4



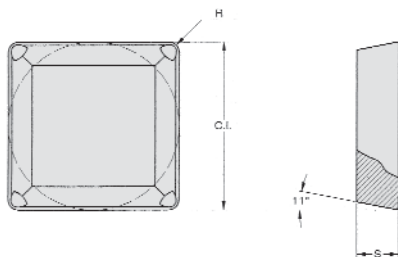
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	DIMENSIONI - DIMENSIONS (mm)		
	C.I.	S	R
<b>SPMR 090308</b>	9,52	3,18	0,8
<b>SPMR 120308</b>	12,70	3,18	0,8
<b>SPMR 120312</b>	12,70	3,18	1,2



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## SPUN



TORNITURA  
TURNING



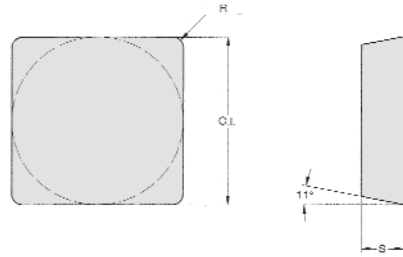
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



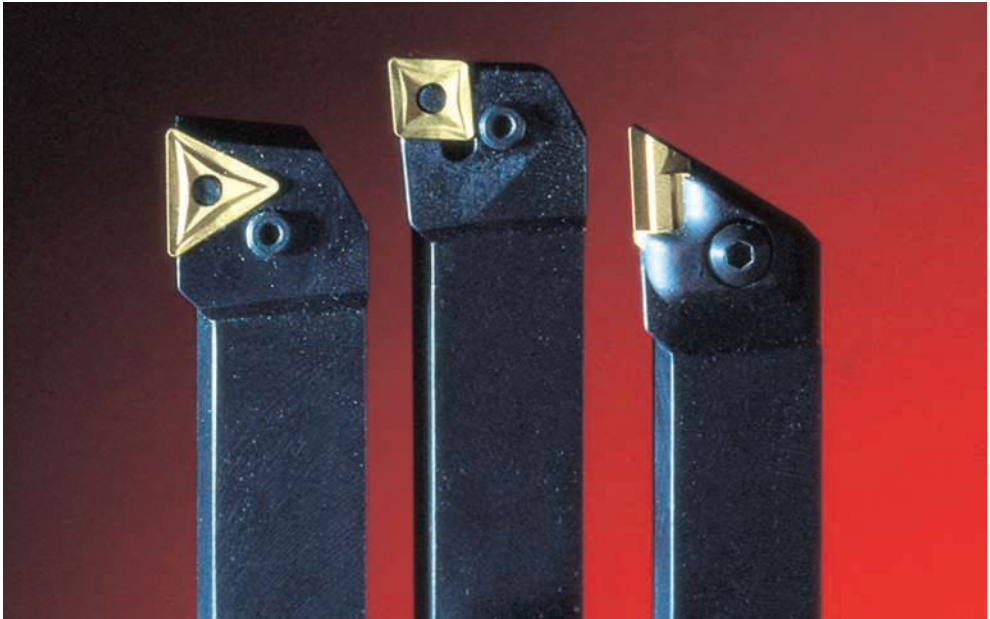
RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)		
	C.I.	S	R
SPUN 090308	9,52	3,18	0,8
SPUN 120304	12,70	3,18	0,4
SPUN 120308	12,70	3,18	0,8
SPUN 120312	12,70	3,18	1,2
SPUN 120408	12,70	4,76	0,8
SPUN 150408	15,87	4,76	0,8
SPUN 150412	15,87	4,76	1,2
SPUN 190408	19,05	4,76	0,8
SPUN 190412	19,05	4,76	1,2



## TCMM



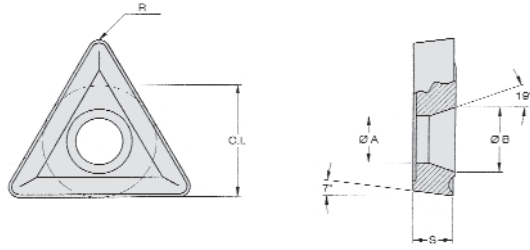
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)				
	C.I.	ØA	ØB	S	R
TCMM 160404	9,52	4,40	5,50	4,00	0,4
TCMM 160408	9,52	4,40	5,50	4,00	0,8

## TNMA



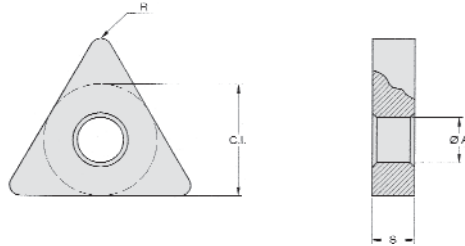
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	R
TNMA 110308	6,35	2,26	3,18	0,8
TNMA 160304	9,52	3,81	3,18	0,4
TNMA 160308	9,52	3,81	3,18	0,8
TNMA 160312	9,52	3,81	3,18	1,2
TNMA 160404	9,52	3,81	4,76	0,4
TNMA 160408	9,52	3,81	4,76	0,8
TNMA 160412	9,52	3,81	4,76	1,2
TNMA 220404	12,70	5,16	4,76	0,4
TNMA 220408	12,70	5,16	4,76	0,8
TNMA 220412	12,70	5,16	4,76	1,2
TNMA 220416	12,70	5,16	4,76	1,6
TNMA 270612	15,87	6,35	6,35	1,2
TNMA 270616	15,87	6,35	6,35	1,6
TNMA 441116	25,40	9,12	11,00	1,6

INSERTI  
INSERTS

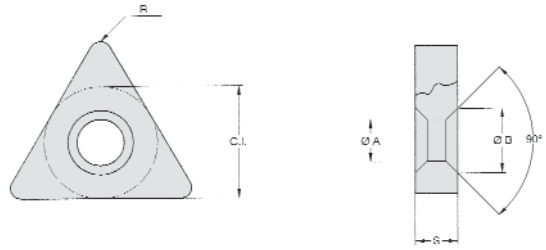
## TNMA-2



TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)				
	C.I.	ØA	ØB	S	R
TNMA-2 160304	9,52	3,81	6,7	3,18	0,4
TNMA-2 160404	9,52	3,81	6,7	4,76	0,4
TNMA-2 220404	12,70	5,16	8,3	4,76	0,4
TNMA-2 220504	12,70	5,16	8,3	5,15	0,4
TNMA-2 220604	12,70	5,16	8,3	6,35	0,4
TNMA-2 220408	12,70	5,16	8,3	4,76	0,8
TNMA-2 220608	12,70	5,16	8,3	6,35	0,8
TNMA-2 330716	19,05	7,94	12,5	7,94	1,6
TNMA-2 330916	19,05	7,94	12,5	9,52	1,6
TNMA-2 330724	19,05	7,94	12,5	7,94	2,4
TNMA-2 330924	19,05	7,94	12,5	9,52	2,4

INSERTI  
INSERTS

## TNMG



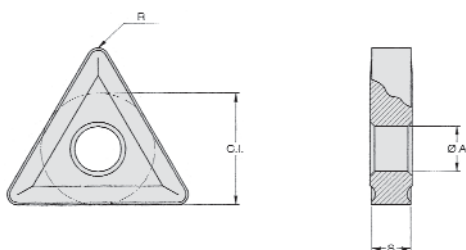
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.L.	ØA	S	R
TNMG 110304	6,35	2,26	3,18	0,4
TNMG 160304	9,52	3,81	3,18	0,4
TNMG 160308	9,52	3,81	3,18	0,8
TNMG 160312	9,52	3,81	3,18	1,2
TNMG 160404	9,52	3,81	4,76	0,4
TNMG 160408	9,52	3,81	4,76	0,8
TNMG 160412	9,52	3,81	4,76	1,2
TNMG 220404	12,70	5,16	4,76	0,4
TNMG 220408	12,70	5,16	4,76	0,8
TNMG 220412	12,70	5,16	4,76	1,2
TNMG 220416	12,70	5,16	4,76	1,6
TNMG 270616	15,87	6,35	6,35	1,6

## TNMG-90



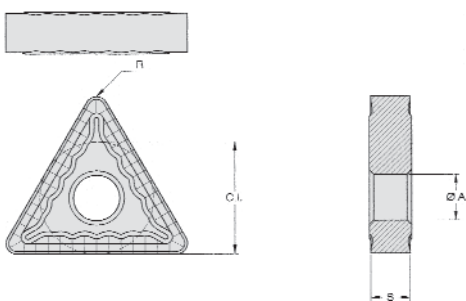
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.L.	ØA	S	R
TNMG 160408-90	9,52	3,81	4,76	0,8
TNMG 160412-90	9,52	3,81	4,76	1,2
TNMG 220408-90	12,70	5,16	4,76	0,8
TNMG 220412-90	12,70	5,16	4,76	1,2



INSERTI  
INSERTS

## TNMG-S



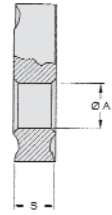
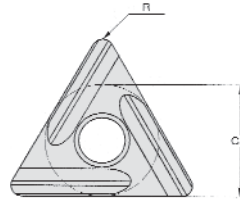
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	R
TNMG 160404R-S	9,52	3,81	4,76	0,4
TNMG 160404L-S	9,52	3,81	4,76	0,4
TNMG 160408R-S	9,52	3,81	4,76	0,8
TNMG 160408L-S	9,52	3,81	4,76	0,8
TNMG 220404R-S	12,70	5,16	4,76	0,4
TNMG 220404L-S	12,70	5,16	4,76	0,4
TNMG 220408R-S	12,70	5,16	4,76	0,8
TNMG 220408L-S	12,70	5,16	4,76	0,8

## TNMM-U



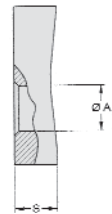
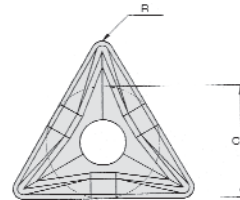
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	R
TNMM 160412-U	9,52	3,81	4,76	1,2
TNMM 220412-U	12,70	5,16	4,76	1,2
TNMM 270616-U	15,87	6,35	6,35	1,6



## TNMX-14P



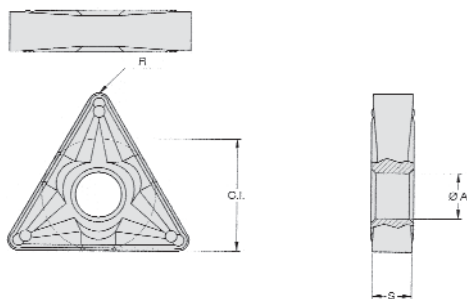
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	R
TNMX 160408-14P	9,52	3,81	4,76	0,8
TNMX 160412-14P	9,52	3,81	4,76	1,2
TNMX 220412-14P	12,70	5,16	4,76	1,2

## TPAN



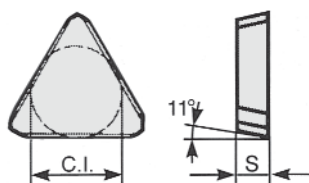
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)	
	C.I.	S
TPAN 1103 PPTN	6,35	3,18
TPAN 1603 PPTN	9,52	3,18

INSERTI  
INSERTS

## TPKX-F



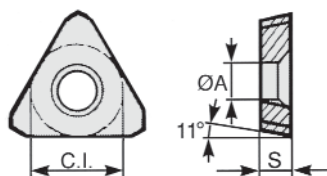
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)		
	C.I.	ØA	S
TPKX 1604 PDF	9,52	4,4	4,76
TPKX 2204 PDF	12,70	5,4	4,76

## TPMA



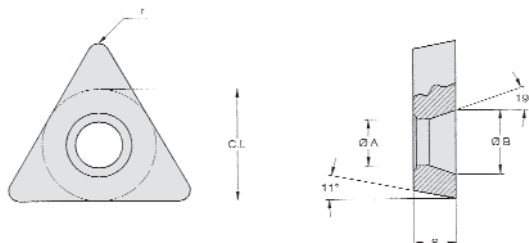
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)				
	C.I.	ØA	ØB	S	r
TPMA 160408	9,52	4,40	5,50	4,76	0,8
TPMA 220408	12,70	5,40	7,00	4,76	0,8

## TPMR



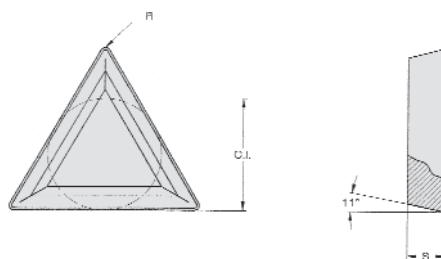
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>S</b>	<b>R</b>
<b>TPMR 110304</b>	6,35	3,18	0,4
<b>TPMR 160304</b>	9,52	3,18	0,4



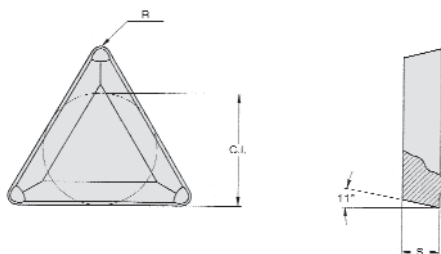
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

	<b>C.I.</b>	<b>S</b>	<b>R</b>
<b>TPMR 110308</b>	6,35	3,18	0,8
<b>TPMR 160308</b>	9,52	3,18	0,8
<b>TPMR 160312</b>	9,52	3,18	1,2



INSERTI  
INSERTS

## TPUN



TORNITURA  
TURNING



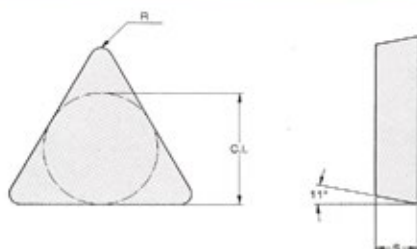
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)		
	C.I.	S	R
TPUN 110304	6,35	3,18	0,4
TPUN 110308	6,35	3,18	0,8
TPUN 160304	9,52	3,18	0,4
TPUN 160308	9,52	3,18	0,8
TPUN 160312	9,52	3,18	1,2
TPUN 220404	12,70	4,76	0,4
TPUN 220408	12,70	4,76	0,8
TPUN 220412	12,70	4,76	1,2
TPUN 220416	12,70	4,76	1,6



## TPKN-F



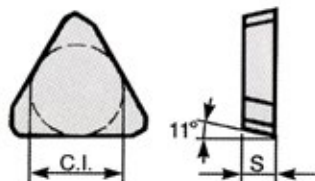
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)	
	C.I.	S
TPKN 1603 PDFR	9,52	3,18
TPKN 2204 PDFR	12,70	4,76

## TPKN-T



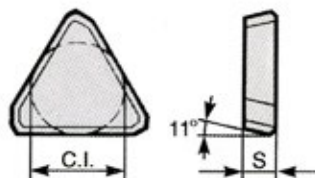
FRESATURA  
MILLING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



CODICE CODE	DIMENSIONI - DIMENSIONS (mm)	
	C.I.	S
TPKN 1603 PDTR	9,52	3,18
TPKN 2204 PDTR	12,70	4,76

## WNMG



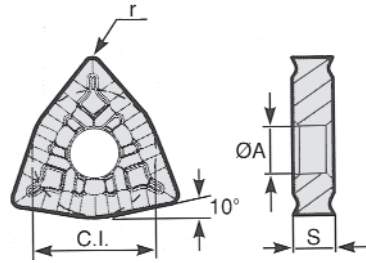
TORNITURA  
TURNING



NON RIVESTITO  
UNCOATED



RIVESTITO  
COATED



**CODICE  
CODE**

**DIMENSIONI - DIMENSIONS (mm)**

**WNMG 080408**

**C.I.**

12,70

**ØA**

5,16

**S**

4,76

**r**

0,8





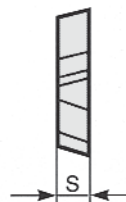
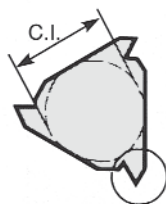
FILETTATURA  
THREADING



NON RIVESTITO  
UNCOATED



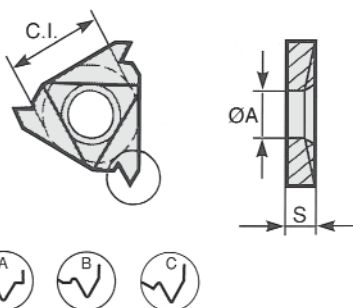
RIVESTITO  
COATED



Passo = P  
Filettatura metrica esterna 60°

Pitch = P  
Outside metric threading 60°

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)		
	C.I.	S	P
WEDA 160315	9,52	3,18	1,50
WESA 160315	9,52	3,18	1,50
WEDA 160317	9,52	3,18	1,75
WESA 160317	9,52	3,18	1,75
WEDA 160320	9,52	3,18	2,00
WESA 160320	9,52	3,18	2,00
WEDB 160307	9,52	3,18	0,75
WESB 160307	9,52	3,18	0,75
WEDB 160310	9,52	3,18	1,00
WESB 160310	9,52	3,18	1,00
WEDB 160312	9,52	3,18	1,25
WESB 160312	9,52	3,18	1,25
WEDC 160325	9,52	3,18	2,50
WESC 130325	9,52	3,18	2,50
WEDC 160330	9,52	3,18	3,00
WESC 160330	9,52	3,18	3,00



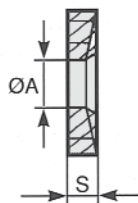
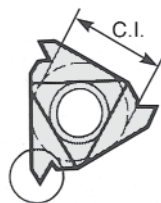
Passo = P  
Filettatura metrica esterna 60°

Pitch = P  
Outside metric threading 60°

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	P
WEFDA 160307	9,52	3,85	3,68	0,75
WEFSA 160307	9,52	3,85	3,68	0,75
WEFDA 160315	9,52	3,85	3,68	1,50
WEFSA 160315	9,52	3,85	3,68	1,50
WEFDA 160317	9,52	3,85	3,68	1,75
WEFSA 160317	9,52	3,85	3,68	1,75
WEFDA 160320	9,52	3,85	3,68	2,00
WEFSA 160320	9,52	3,85	3,68	2,00
WEFDB 160310	9,52	3,85	3,68	1,00
WEFSB 160310	9,52	3,85	3,68	1,00
WEFDB 160312	9,52	3,85	3,68	1,25
WEFSB 160312	9,52	3,85	3,68	1,25
WEFDC 160325	9,52	3,85	3,68	2,50
WEFSC 160325	9,52	3,85	3,68	2,50
WEFDC 160330	9,52	3,85	3,68	3,00
WEFSC 160330	9,52	3,85	3,68	3,00

CODICE FILETTATORE UNIVERSALE CODE UNIVERSAL THREADING	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	P
WEFD/0,5-3	9,52	3,85	3,68	0,5-3



FILETTATURA  
THREADINGNON RIVESTITO  
UNCOATEDRIVESTITO  
COATED

Passo = P  
Filettatura metrica interna 60°

Pitch = P  
Inside metric threading 60°

CODICE CODE	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	P
WIFDA 160315	9,52	3,85	3,68	1,50
WIFSA 160315	9,52	3,85	3,68	1,50
WIFDA 160317	9,52	3,85	3,68	1,75
WIFSA 160317	9,52	3,85	3,68	1,75
WIFDA 160320	9,52	3,85	3,68	2,00
WIFSA 160320	9,52	3,85	3,68	2,00
WIFDB 160307	9,52	3,85	3,68	0,75
WIFSB 160307	9,52	3,85	3,68	0,75
WIFDB 160310	9,52	3,85	3,68	1,00
WIFSB 160310	9,52	3,85	3,68	1,00
WIFDB 160312	9,52	3,85	3,68	1,25
WIFSB 160312	9,52	3,85	3,68	1,25
WIFDC 160325	9,52	3,85	3,68	2,50
WIFSC 160325	9,52	3,85	3,68	2,50
WIFDC 160330	9,52	3,85	3,68	3,00
WIFSC 160330	9,52	3,85	3,68	3,00

CODICE FILETTATORE UNIVERSALE CODE UNIVERSAL THREADING	DIMENSIONI - DIMENSIONS (mm)			
	C.I.	ØA	S	P
WIFD/0,5-3	9,52	3,85	3,68	0,5-3



INSERTI  
INSERTS