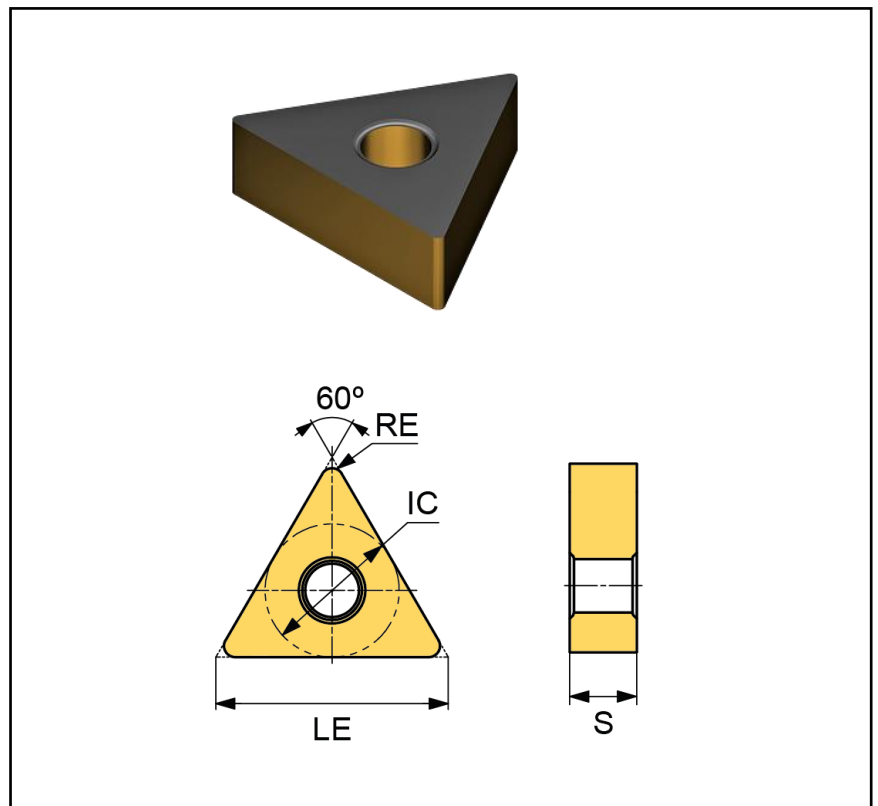


Features

- High-performance CVD grade (ET101C), engineered for maximum durability and wear resistance, the ET101C grade delivers consistent performance during heavy roughing operations, even under high stress and interrupted cutting conditions.
- Specifically optimised for ISO K materials (all cast irons), ensuring efficient material removal, excellent edge stability, and longer tool life when machining gray, ductile, or chilled cast irons.
- TNMA 60° geometry with CTPT compatibility provides stable cutting, reduced vibration, and reliable performance for heavy-duty roughing applications, making it ideal for semi-finish and high-volume machining.

RS PRO TNMA 160412 ET101C



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

The RS Pro TNMA 160412 ET101C is a high performance CVD tough insert engineered for heavy roughing of cast iron (ISO K). Its ET101C grade provides outstanding wear resistance and edge stability, even under demanding interrupted cuts and high stress conditions. The TNMA 60° triangular design ensures stable, vibration free cutting, making it ideal for heavy roughing operations. Optimised for maximum material removal and long tool life, this insert delivers reliable performance, precision, and efficiency for professional machining applications.

General Specifications

Brand	RS PRO
Material	Carbide
Product Type	Negative Turning Insert
Overall Height	15.7mm
Overall Length	15.7mm
Thickness	4.76mm
For Use With	TTJNR Tool Holder
Number of Pieces	Pack of 10
Insert Bit Type	Heavy Roughing
Insert Application	Cast Iron

Mechanical Specifications

Inscribed Circle (Insert Size)	IC – See table below and detailed image below
Overall Length	LE – See table below and detailed image below
Overall Height	IC– See table below and detailed image below
Thickness	S – See table below and detailed image below
Thread Profile Geometry	RE – See table below and detailed image below

Approvals

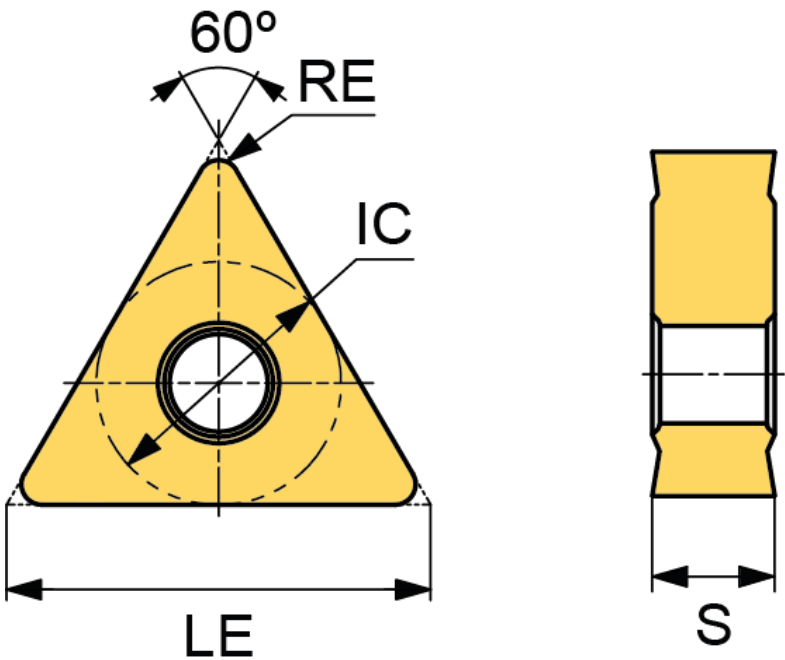
Declarations	N/A
Hazardous Area Certification	N/A
Standards Met	ISO

Stock No.	Brand	Length of Edge - LE	Inscribed Circle - IC	Thickness S	Corner Radius - RE	Feed per rev f_n	Depth of cut a_p
XXX-XXXX 900313	RS PRO	15.7	9.53	4.76	1.2	0.15 - 0.50	1.5 - 4.0

Similar Products

Stock No.	Brand	Shank Height H	Functional Height HF	Shank Width B	Functional Length LF	Functional Width WF	Cutting Angle KAPR
XXX-XXXX 900442	RS PRO	20	20	20	125	25	93°

Connection Diagrams / Assembly Diagrams / Illustrations / Accessories



Cutting Data

ISO	P			M		K		N						S			H		
VDI	1-5	6-9	10-11	12-13	14	15-16	17-20	21-24	25	26-28	29.1	29.2	30	31-32	33-35	36-37	38	39	40-41
● ○ Primary Secondary						●	●												