

# NEW PRODUCT NEWS

## T-TURN

expansion

### TC3020 and TC3030 Grades Now Expanded to the RNGN 19 and 25 Size Inserts



## KEY POINT

**Both the TC3020 and TC3030 grades -- known for excellent, high-temperature alloys machining -- have been expanded to include both the RNGN 19 and 25 size inserts.**

The introduction of the **TC3020** and **TC3030** grades to the **RNGN 19** and **25** size inserts enables reduced machining time and better productivity in deep depths of cut on high-temperature alloys as demanded by customers in industries such as aerospace.

Please refer to the NPN released in May 2016 regarding grades **TC3020** and **TC3030**.

### Features

#### TC3020

- Ideal for high-temperature alloys machining and runs in the same conditions as the whisker ceramic grade
- Superior wear resistance due to high chemical stability
- Better flank and notch wear resistance compared to the competition's grade
- Excellent high temperature strength and fracture toughness
- Available for turning, milling and grooving applications

#### TC3030

- Ideal for high-temperature alloys machining and tougher when compared to the whisker ceramic grade
- The grade's extreme toughness enables higher feed and heavier depth of cut machining
- Suitable for scaling and roughing applications
- Excellent thermal shock resistance and thermal conductivity
- Available for turning, milling and grooving applications

## Cutting conditions

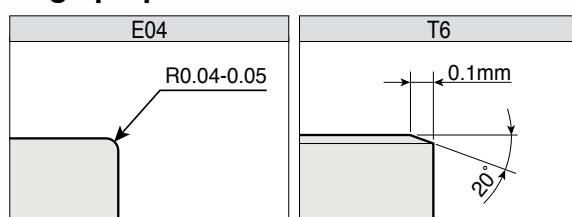
### Turning

Workpiece material	TC3020		TC3030	
	Vc (m/min)	f (mm/rev)	Vc (m/min)	f (mm/rev)
High-temperature alloys	200-350	0.1-0.4	150-250	0.2-0.5

## TC3020 and TC3030 grades expanded item list

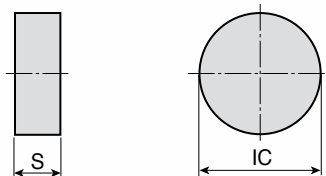
new		
Item no.	Designation	
6186122	RNGN 190700 E04	TC3020
6186123	RNGN 190700 E04	TC3030
6186697	RNGN 190700 T6	TC3020
6186698	RNGN 190700 T6	TC3030
6186124	RNGN 250900 E04	TC3020
6186125	RNGN 250900 E04	TC3030
6186699	RNGN 250900 T6	TC3020
6186700	RNGN 250900 T6	TC3030

### Edge preparation



# RNGN

## Negative round inserts



Size	Dimension (mm)	
	IC	S
<b>19</b>	19.05	7.94
<b>25</b>	25.4	9.52

Insert	Designation	Grades				
		AB20	AB30	TC430	TC3020	TC3030
	<b>RNGN 190700</b>	●	●			
	<b>190700 E04</b> <span style="color: red;">(new)</span>				●	●
	<b>190700 T6</b> <span style="color: red;">(new)</span>			●	●	●
	<b>190700 U2</b>		●			
	<b>250900 E04</b> <span style="color: red;">(new)</span>				●	●
	<b>250900 T6</b> <span style="color: red;">(new)</span>				●	●

●: Standard items  
●: New items