

Epoch21

Nano-PVD Coating  
TH45+

No. 419.2

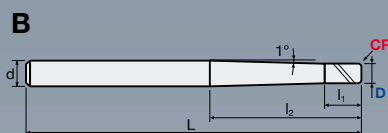
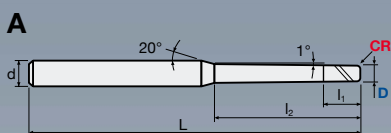
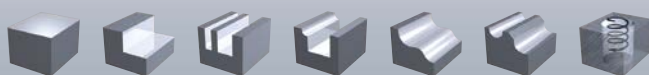
# Epoch Turbo High Feed Radius Pencil

## Solid Carbide 4-flute Corner Radius End Mill

Extremely high cutting efficiency  
Low r.p.m. - High Feed

### EPOCH TURBO PENCIL NECK

<b>Q max</b> High Efficient	<b>▽</b> Roughing	<b>▽▽</b> Semi-Finishing	<b>▽▽▽</b> Finishing	<b>HRC</b> 60	<b>No. of Teeth</b> 4
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<b>Carbide</b> Micro Grain	<b>TH45+</b> Nano-PVD Coating
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D	0 / -0.015
R	± 0.015
d	h5

ID Code	Item Code	D	CR	l <sub>2</sub>	l <sub>1</sub>	θ	L	d	Type
EP589	ETMP-4020-12-05	2	0.5	12	3	1°	70	6	A
EP590	ETMP-4020-16-05			16					
EP591	ETMP-4020-20-05			20					
EP592	ETMP-4030-18-08	3	0.8	18	4.5		80	6	
EP593	ETMP-4030-24-08			24					
EP594	ETMP-4030-30-08			30					
EP595	ETMP-4040-24-10	4	1.0	24	6		90	6	
EP596	ETMP-4040-32-10			32					
EP597	ETMP-4040-40-10			40					
EP598	ETMP-4050-30-12	5	1.2	30	7.5	100	8		
EP599	ETMP-4050-40-12			40					
EP600	ETMP-4050-50-12			50					
EP601	ETMP-4060-40-15	6	1.5	40	9	100	8		
EP602	ETMP-4060-55-15			55					
EP603	ETMP-4060-67-15			67					

More stability with  $\theta = 1^\circ$  neck angle



**ATTENTION**

- Be careful of the newly developed flute shape when measuring tool diameter or oscillation.
- The bit is designed with a smaller outer diameter connected to end slave flutes.
- When measuring tool diameter or oscillation, measure the main flutes.

**ZUR BEACHTUNG**

- Bitte beachten Sie die Schneidengeometrie beim Messen von Werkzeugdurchmesser oder Oszillation.
- Der Fräser hat einen geringeren Außendurchmesser, verbunden mit den vorderen Sekundärschneiden.
- Für die Vermessung von Werkzeugdurchmesser / Oszillation sind die Hauptschneiden relevant.

**ATTENZIONE**

- Prestare attenzione alla nuova geometria dei taglienti durante la misurazione del diametro utensile o del run-out.
- Per determinare il diametro dell'utensile od il run-out, misurare i taglienti principali.

**ATENCIÓN**

- Tenga en cuenta la nueva geometría de los labios de la herramienta cuando mida el diámetro o el salto.

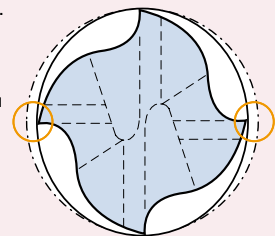
- Los labios secundarios están diseñados con un diámetro menor.
- Al medir diámetro de la herramienta o el salto, hay que medir los labios principales.

**ATTENTION**

- Faites attention à la forme de la dent développée pour cet outils, lors de la mesure du diamètre de l'outil ou de l'oscillation.
- Les dents secondaires sont légèrement en retrait des dents principales, ce qui donne un diamètre inférieur.
- Lors de la mesure du diamètre ou de l'oscillation, appliquer ces mesures aux dents principales.

**ATENÇÃO**

- Ter em atenção a nova geometria da navalha, quando se medir o diâmetro ou oscilação da ferramenta.
- As navalhas mais recolhidas estão desenhadas para um diâmetro mais pequeno
- Aquando da medição do diâmetro ou oscilação da ferramenta, medir as navalhas principais.

**Product Range**

Solid Carbide End Mills



microEndMill

Epoch21

MINIATURE

3D-Cut

Indexable Milling Tools

Indexable  
Milling

WHNSB Drills

WHNSB  
NON STEP BORER

Milling Chucks

Milling  
Chucks**Always up to date: Please check our P50 QuickFinder****P50 PRODUCTIONS50®**  
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