

**Indexable Milling Tools**

**AFE45 | Face Mill**

<b>Q max</b> High Efficient	<b>Jet</b> Air Hole	<b>▽</b> Roughing	<b>▽▽</b> Semi-Finishing	<b>HRC</b> 60	<b>No. of Teeth</b> 4-14
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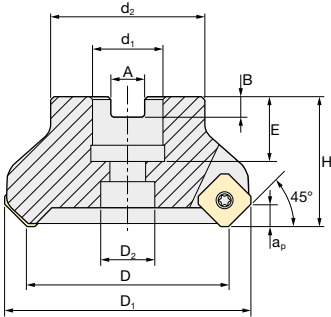


Fig. 1

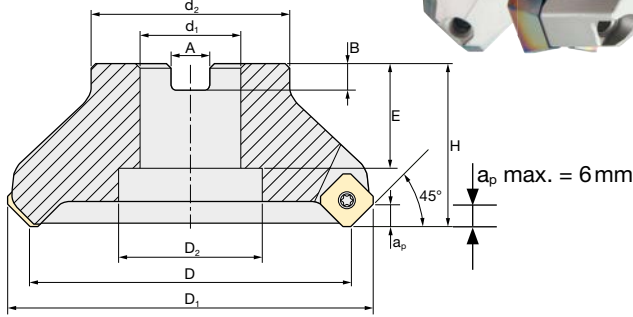


Fig. 2

Torque on screw	Tolerance
<b>3 Nm</b>	D <sub>1</sub> 0/-0.4mm (min.)

ID Code	Item Code	Z	D	D <sub>1</sub>	d <sub>1</sub>	D <sub>2</sub>	d <sub>2</sub>	A	B	H	E	a <sub>p</sub>	Carbide Seat	Coolant hole	Fig.
FH193	<b>AFE45-4050R-4-UE</b>	4	<b>50</b>	63.4	22	18	48	10.4	6.3	40	20	6	-	•	1
FH194	<b>AFE45-4050R-5-E</b>	5													
FH195	<b>AFE45-4063R-5-UE</b>	5	<b>63</b>	76.6	27	20	58	12.4	7	50	22				
FH196	<b>AFE45-4063R-6-E</b>	6													
FH198	<b>AFE45-4080R-6-UE</b>	6	<b>80</b>	93.5	32	26.5	78	14.4	8	50	25				
FH199	<b>AFE45-4080R-8-E</b>	8													
FH201	<b>AFE45-4100R-7-UE</b>	7	<b>100</b>	113.5	40	32.5	90	16.4	9	63	29				
FH202	<b>AFE45-4100R-9-E</b>	9													
FH204	<b>AFE45-4125R-8-UE</b>	8	<b>125</b>	138.5	40	56	114	25.7	14	63	39				
FH205	<b>AFE45-4125R-10-E</b>	10													
FH206	<b>AFE45-4160R-9-UE</b>	9	<b>160</b>	173.5	60*	61	145	25.7	14	63	39				
FH207	<b>AFE45-4160R-11-E</b>	11													
FH208	<b>AFE45-4200R-10-UE</b>	10	<b>200</b>	213.5	60*	61	145	25.7	14	63	39				
FH209	<b>AFE45-4200R-12-E</b>	12													
FH210	<b>AFE45-4250R-14-E</b>	14	<b>250</b>	263.4			160								

\* + Screws

Inserts
SE..T13T3AGTN SEET13T3AG..N-S

	<b>Parts</b>	<b>Screw</b>		<b>Wrench (15IP)</b>	
	<b>Type</b>	<b>ID-Code</b>	<b>Item-Code</b>	<b>ID-Code</b>	<b>Item-Code</b>
D 50-80	ET062	<b>242-143 Short</b>	ET061	<b>490-150</b>	

	<b>Parts</b>	<b>Screw</b>		<b>Wrench (15IP)</b>	
	<b>Type</b>	<b>ID-Code</b>	<b>Item-Code</b>	<b>ID-Code</b>	<b>Item-Code</b>
D 100-250	ET060	<b>242-143</b>	ET061	<b>490-150</b>	

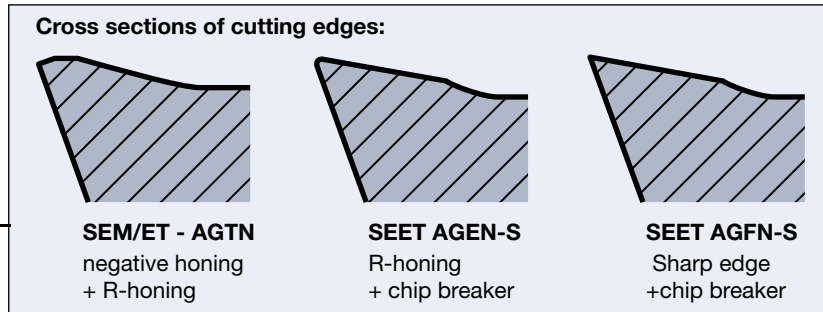
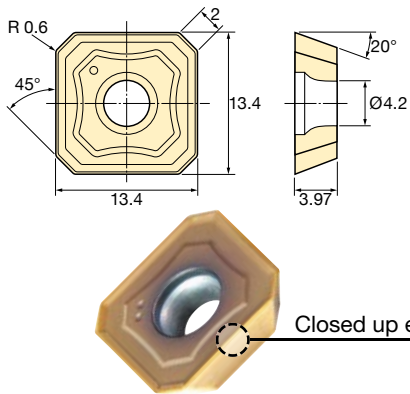
	<b>Parts</b>	<b>Carbide Seat</b>		<b>Screw for Seat</b>		<b>Wrench for Seat (H3.5)</b>	
	<b>Type</b>	<b>ID-Code</b>	<b>Item-Code</b>	<b>ID-Code</b>	<b>Item-Code</b>	<b>ID-Code</b>	<b>Item-Code</b>
D 100-250	ET058	<b>212-271</b>	ET059	<b>212-280</b>	ET057	<b>100-230</b>	

\* The seat must be installed so that the surface indicated by \* is facing the outside of the cutter.

\* In consideration of reducing environmental loads, the screwdriver and wrench for seat are now sold separately to avoid sending unnecessary duplicate tools. We hope you will understand our reasoning.

**Indexable Milling Tools**

**INSERTS AFE45 | Face Mill AFE45 Type**



			Target Hardness of Workpiece						
			Grade						
			SD5010	GX2140	JM4060	JS4045	JS4060	JP4020	JP4005
Grade Info		Target material	Aluminium	Mild steel Cast iron	SUS	General steel	Mild steel	Hardened steel Cast iron SUS	Hardened steel
		Coolant	Emulsion Mist Air-blow	Air-blow	Emulsion Mist Air-blow	Air-blow	Emulsion Mist Air-blow	Emulsion Mist Air-blow	Emulsion Mist Air-blow
Item Code	Tolerance Class	Target hardness	-	35HRC >	-	> 30HRC	35HRC >	> 40HRC	> 50HRC
			ID-Code						
SEMT13T3AGTN	M	Nega honing + chip breaker		WF250		WF251	WF220	WF219	
SEET13T3AGTN	E	Nega honing + chip breaker		WF246	WF247	WF249	WF218	WF217	WF248
SEET13T3AGEN-S	E	R honing + chip breaker			WF244	WF245		WF215	
SEET13T3AGFN-S	E	Sharp edge + chip breaker	WF216						

SD5010: DLC coated grade for Aluminium

