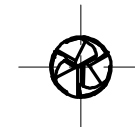
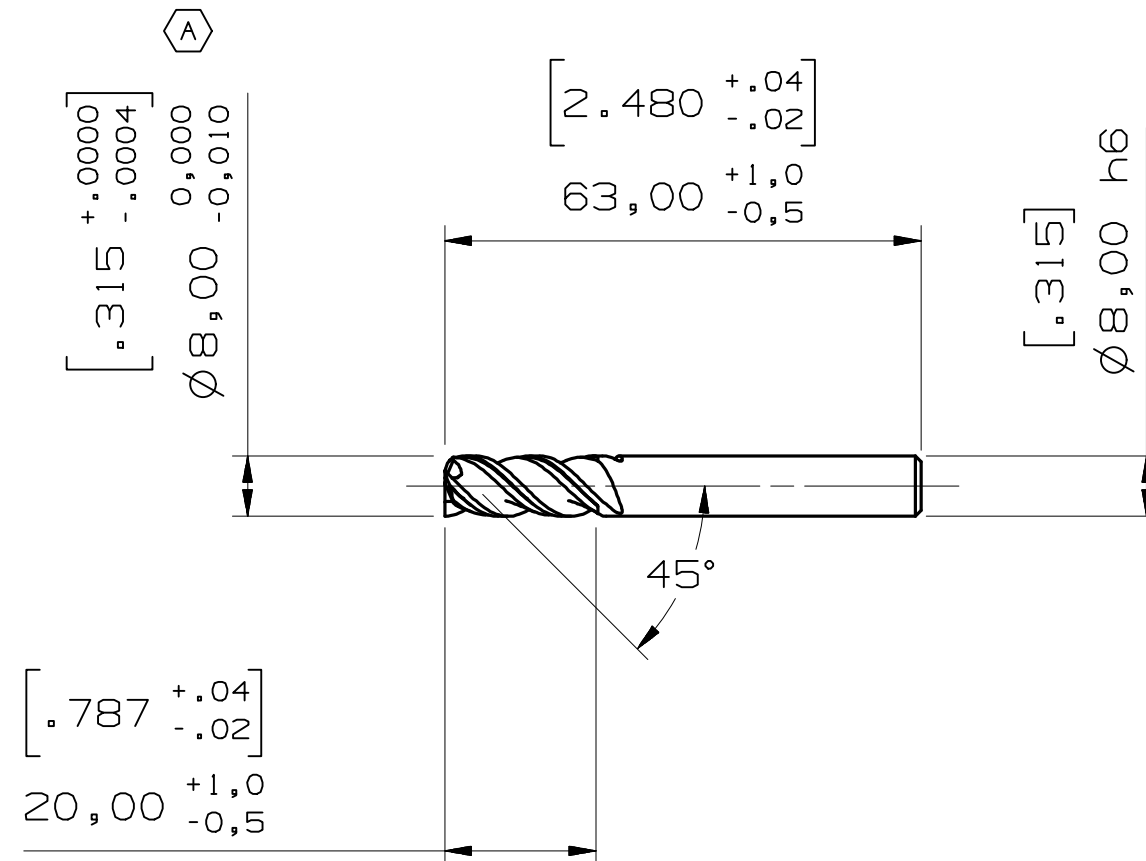
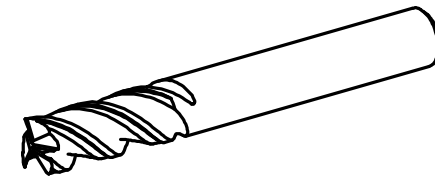


TOOL TYPE : SIM TO 5103
FINISH TYPE : Finisher
ADAPTER : Straight-Cylindrical
R-HAND TOOL
R-HAND HELIX 45°
Z = 3 FLUTES
WORKPIECE: AL ALLOY



NOF = 3

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	<table><thead><tr><th colspan="2"></th><th colspan="5">FOR LENGTH</th><th colspan="3">FOR ROUNDINGS AND CHAMFERS</th><th colspan="4">FOR ANGLES - LENGTH OF SHORT LEG</th></tr><tr><th>MM</th><th>OVER TO</th><th>0.5</th><th>3</th><th>6</th><th>30</th><th>120</th><th>0.5</th><th>3</th><th>6</th><th>10</th><th>10</th><th>50</th><th>120</th></tr></thead><tbody><tr><td></td><td>±</td><td>0.1</td><td>0.1</td><td>0.2</td><td>0.3</td><td>0.5</td><td>0.2</td><td>0.5</td><td>1.0</td><td>1°</td><td>30°</td><td>20°</td><td>10°</td></tr><tr><td>INCH</td><td>OVER TO</td><td>0.02</td><td>0.12</td><td>0.24</td><td>1.2</td><td>4.72</td><td>0.02</td><td>0.12</td><td>0.24</td><td>0.4</td><td>0.4</td><td>1.97</td><td>4.72</td></tr><tr><td></td><td>±</td><td>0.004</td><td>0.004</td><td>0.008</td><td>0.012</td><td>0.020</td><td>0.008</td><td>0.020</td><td>0.040</td><td>1°</td><td>30°</td><td>20°</td><td>10°</td></tr></tbody></table>					FOR LENGTH					FOR ROUNDINGS AND CHAMFERS			FOR ANGLES - LENGTH OF SHORT LEG				MM	OVER TO	0.5	3	6	30	120	0.5	3	6	10	10	50	120		±	0.1	0.1	0.2	0.3	0.5	0.2	0.5	1.0	1°	30°	20°	10°	INCH	OVER TO	0.02	0.12	0.24	1.2	4.72	0.02	0.12	0.24	0.4	0.4	1.97	4.72		±	0.004	0.004	0.008	0.012	0.020	0.008	0.020	0.040	1°	30°	20°
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INCH	OVER TO	0.02	0.12	0.24	1.2	4.72	0.02	0.12	0.24	0.4	0.4	1.97	4.72																																																											
	±	0.004	0.004	0.008	0.012	0.020	0.008	0.020	0.040	1°	30°	20°	10°																																																											
BREAK ALL SHARP CORNERS ON STEEL 0.5 x 45° CHAMFER FIRST THREAD ON TAPPED HOLES																																																																								
SURFACE FINISH SYMBOLS PER ISO 1302			√NB (✓)																																																																					
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μM	√Ra 3.2	√Ra 1.6	√Ra 0.8																																																																					
μIN	√Ra 125	√Ra 63	√Ra 32																																																																					
SYM	√N5	√N4	√N3																																																																					
μM	√Ra 0.4	√Ra 0.2	√Ra 0.1																																																																					
μIN	√Ra 16	√Ra 8	√Ra 4																																																																					
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NOTE: THIS DRAWING IS THE PROPERTY OF KENNAMETAL INC. AND/OR A KENNAMETAL INC. SUBSIDIARY AND CONTAINS PROPRIETARY AND TRADE SECRET INFORMATION AND INTELLECTUAL PROPERTY RIGHTS. IT HAS BEEN SUBMITTED TO YOU IN CONFIDENCE FOR A SPECIFIC PURPOSE AND MAY ONLY BE USED FOR THAT PURPOSE. THE REPRODUCTION, DISTRIBUTION AND UTILIZATION OF THIS DRAWING, IN WHOLE OR IN PART, AS WELL AS THE COMMUNICATION OF ANY OF ITS CONTENTS TO OTHERS, WITHOUT EXPRESS WRITTEN AUTHORIZATION IS PROHIBITED. ALL RIGHTS RESERVED.																																																																								
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