



# End Mills – Five Flute

## Five Flute 45 Degree



A five flute design with 45 degree helix for faster production rates from a freer cutting harmonically balanced odd number of flutes. Increase chip flow over a six flute end mill for finishing and medium to light peripheral roughing in steels, stainless steels, titanium and high temp alloys.

545 = REGULAR	545L = LONG	545XL = EXTRA LONG
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CUTTING DIA.	FLUTE LENGTH	OVERALL LENGTH	ALTIN PART NUMBER	ALTIN LIST PRICE
1/4	3/4	2-1/2	<b>545-250011</b>	<b>28.88</b>
1/4	1-1/8	3	<b>545L250011</b>	<b>44.29</b>
1/4	1-1/2	4	<b>545XL250011</b>	<b>52.73</b>
5/16	3/4	2-1/2	<b>545-312511</b>	<b>41.75</b>
5/16	1-1/8	3	<b>545L312511</b>	<b>56.53</b>
5/16	1-5/8	4	<b>545XL312511</b>	<b>65.37</b>
3/8	1	2-1/2	<b>545-375011</b>	<b>46.43</b>
3/8	1-1/8	3	<b>545L375011</b>	<b>72.93</b>
3/8	1-3/4	4	<b>545XL375011</b>	<b>80.39</b>
7/16	1-3/16	2-3/4	<b>545-437511</b>	<b>61.05</b>
1/2	1-1/4	3	<b>545-500011</b>	<b>75.44</b>
1/2	2	4	<b>545L500011</b>	<b>126.06</b>
1/2	3	6	<b>545XL500011</b>	<b>192.59</b>
5/8	1-5/8	3-1/2	<b>545-625011</b>	<b>144.04</b>
5/8	2-1/4	5	<b>545L625011</b>	<b>220.83</b>
5/8	3	6	<b>545XL625011</b>	<b>250.64</b>
3/4	1-5/8	4	<b>545-750011</b>	<b>192.49</b>
3/4	2-1/4	5	<b>545L750011</b>	<b>300.40</b>
3/4	3	6	<b>545XL750011</b>	<b>338.25</b>
1	2	4	<b>545-1000</b>	<b>345.11</b>
1	2-1/2	5	<b>545L1000</b>	<b>506.55</b>
1	3-1/4	6	<b>545XL1000</b>	<b>626.54</b>
1	4	7	<b>545XXL1000</b>	<b>777.98</b>



# End Mills – Six Flute

**Six Flute**  
**45 Degree**



646 = REGULAR

646L = LONG

646XL = EXTRA LONG

CUTTING DIA.	FLUTE LENGTH	OVERALL LENGTH	ALTIN PART NUMBER	ALTIN LIST PRICE
1/4	3/4	2-1/2	<b>646-250011</b>	<b>28.88</b>
1/4	1-1/8	3	<b>646L250011</b>	<b>44.29</b>
1/4	1-1/2	4	<b>646XL250011</b>	<b>52.73</b>
5/16	3/4	2-1/2	<b>646-312511</b>	<b>41.75</b>
5/16	1-1/8	3	<b>646L312511</b>	<b>56.53</b>
5/16	1-5/8	4	<b>646XL312511</b>	<b>65.37</b>
3/8	1	2-1/2	<b>646-375011</b>	<b>46.43</b>
3/8	1-1/8	3	<b>646L375011</b>	<b>72.93</b>
3/8	1-3/4	4	<b>646XL375011</b>	<b>80.39</b>
7/16	1-3/16	2-3/4	<b>646-437511</b>	<b>61.05</b>
1/2	1-1/4	3	<b>646-500011</b>	<b>75.44</b>
1/2	2	4	<b>646L500011</b>	<b>126.06</b>
1/2	3	6	<b>646XL500011</b>	<b>192.59</b>
5/8	1-5/8	3-1/2	<b>646-625011</b>	<b>144.04</b>
5/8	2-1/4	5	<b>646L625011</b>	<b>220.83</b>
5/8	3	6	<b>646XL625011</b>	<b>250.64</b>
3/4	1-5/8	4	<b>646-750011</b>	<b>192.49</b>
3/4	2-1/4	5	<b>646L750011</b>	<b>300.40</b>
3/4	3	6	<b>646XL750011</b>	<b>338.25</b>
1	2	4	<b>646-1000</b>	<b>345.11</b>
1	2-1/2	5	<b>646L1000</b>	<b>506.55</b>
1	3-1/4	6	<b>646XL1000</b>	<b>626.54</b>
1	4	7	<b>646XXL1000</b>	<b>777.98</b>