

Roughers



Series 620

For maximum stock removal of mild, stainless, and hardened steels and alloys.

OD x LOC x ShankOD x OAL	No. of Flutes	STD	Price	TiN	Price	TiCN	Price	TiALN	Price
1/4 x 3/4 x 1/4 x 2-1/2	3	62000	\$68.62	62070	\$74.30	62080	\$77.61	62090	\$77.61
5/16 x 3/4 x 5/16 x 2-1/2	3	62100	\$73.70	62170	\$81.69	62180	\$86.59	62190	\$86.59
3/8 x 7/8 x 3/8 x 2-1/2	3	62200	\$94.14	62270	\$102.52	62280	\$108.04	62290	\$108.04
1/2 x 1 x 1/2 x 3	4	62300	\$118.95	62370	\$130.91	62380	\$136.92	62390	\$136.92
5/8 x 1-1/4 x 5/8 x 3-1/2	4	62400	\$203.45	62470	\$219.54	62480	\$228.86	62490	\$228.86
3/4 x 1-1/2 x 3/4 x 4	4	62500	\$238.17	62570	\$257.08	62580	\$269.70	62590	\$269.70
1 x 1-1/2 x 1 x 4	5	62600	\$381.65	62670	\$417.92	62680	\$433.68	62690	\$433.68

Series 621

For maximum stock removal of titanium, inconel, waspaloy, and other advanced materials.

OD x LOC x ShankOD x OAL	No. of Flutes	STD	Price	TiN	Price	TiCN	Price	TiALN	Price
1/4 x 3/4 x 1/4 x 2-1/2	3	62001	\$68.62	62071	\$74.30	62081	\$77.61	62091	\$77.61
5/16 x 3/4 x 5/16 x 2-1/2	3	62101	\$73.70	62171	\$81.69	62181	\$86.59	62191	\$86.59
3/8 x 7/8 x 3/8 x 2-1/2	3	62201	\$94.14	62271	\$102.52	62281	\$108.04	62291	\$108.04
1/2 x 1 x 1/2 x 3	4	62301	\$118.95	62371	\$130.91	62381	\$136.92	62391	\$136.92
5/8 x 1-1/4 x 5/8 x 3-1/2	4	62401	\$203.45	62471	\$219.54	62481	\$228.86	62491	\$228.86
3/4 x 1-1/2 x 3/4 x 4	4	62501	\$238.17	62571	\$257.08	62581	\$269.70	62591	\$269.70
1 x 1-1/2 x 1 x 4	6	62601	\$381.65	62671	\$417.92	62681	\$433.68	62691	\$433.68

Series 622

For maximum stock removal of aluminum, brass, bronze, and other lightweight alloys.

OD x LOC x ShankOD x OAL	No. of Flutes	STD	Price	TiN	Price	TiCN	Price	TiALN	Price
1/4 x 3/4 x 1/4 x 2-1/2	3	62002	\$68.62	62072	\$74.30	62082	\$77.61	62092	\$77.61
5/16 x 3/4 x 5/16 x 2-1/2	3	62102	\$73.70	62172	\$81.69	62182	\$86.59	62192	\$86.59
3/8 x 7/8 x 3/8 x 2-1/2	3	62202	\$94.14	62272	\$102.52	62282	\$108.04	62292	\$108.04
1/2 x 1 x 1/2 x 3	3	62302	\$118.95	62372	\$130.91	62382	\$136.92	62392	\$136.92
5/8 x 1-1/4 x 5/8 x 3-1/2	3	62402	\$203.45	62472	\$219.54	62482	\$228.86	62492	\$228.86
3/4 x 1-1/2 x 3/4 x 4	3	62502	\$238.17	62572	\$257.08	62582	\$269.70	62592	\$269.70
1 x 1-1/2 x 1 x 4	3	62602	\$381.65	62672	\$417.92	62682	\$433.68	62692	\$433.68

Rougher Use

Roughers, or “hoggers”, are useful for rapid removal of large amounts of material. The chip groove design allows for more cutting fluid to the cutting edge and dissipates heat better. There is a wide range of variations in rougher profile forms for different material groups. The coarser the pitch of the roughing edge, the more material removed and the less smooth the finish. In addition most roughers have eccentric relief so regrinding can be done only using the cutting face. This saves you if you have access to regrinding equipment.



TiN



TiCN



TiALN