


VI-PRO

TITAN's VI-PRO is a High Performance, solid carbide endmill, that incorporates the ultimate in variable index geometry. Our flute configuration produces a harmonics shift, resulting in minimal chatter and an exceptional finish.

- Used in all slotting, roughing, profiling and finishing applications
- High Performance, chatter free machining provides versatility in use for all ferrous materials
- Designed for use in Alloy Steels, Cast Iron, Titanium, Stainless Steel, High Temp and all other ferrous materials up to 50HRc
- Enables higher SFM and heavier chip loads
- Eccentric Relief on the cutting edge provides enhanced edge strength
- Available in 4 & 5 Flute - Stub, Regular, Long & Extra Long Lengths
- Available in Square End, Ball Nose and various  Corner Radius sizes
- Offered in ALTiN & ALCRO-MAX to cover a wide range of materials
- Made in the USA from premium solid micrograin carbide

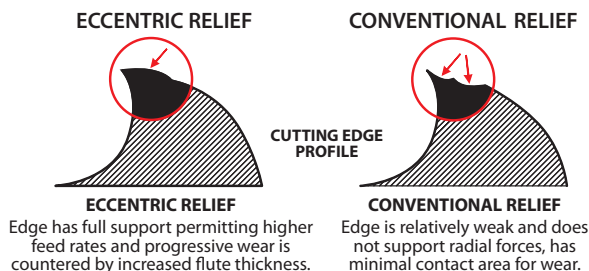
Why use TITAN's Corner Radius tools?

- The tools improve productivity and reduce costs.
- A sharp corner of an endmill is its weakest point. The corner radius design strengthens the endmill by reducing chipping and providing longer tool life.
- Extensive offering of Corner Radius tools: Stub, Regular, Long & Extra Long Lengths, with radius starting at 0.008 up to 0.120.



TITAN's High-Performance VI-PRO carbide endmill utilizes an Eccentric Relief on the cutting edge that provides enhanced edge strength and a smoother cutting action.

Advantages of Eccentric Relief vs Conventional Relief



Scan this QR code with your smartphone or mobile device to view a demonstration video of the VI-PRO.

Need a QR scanner? Download it for free from your phone's app store.

CARBIDE ENDMILLS ■ VI-PRO ■ HIGH PERFORMANCE



HIGH PERFORMANCE

YOUR #1 SOURCE FOR AMERICAN-MADE PREMIUM CUTTING TOOLS

Solid Carbide Endmills

MADE IN THE USA

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PRICES!**

VI-PRO

**VARIABLE INDEX
STUB LENGTH - 4 FLUTE - SQUARE END**



**SERIES V41S
ALTIM COATED**

**SERIES V42S
ALCRO-MAX COATED**

VI-PRO					ALTIM COATED				ALCRO-MAX COATED			
SIZE	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE
1/8	1/8	1/4	1-1/2	4	TC20901	25.24	-	-	TC21133	27.68	-	-
3/16	3/16	3/8	2	4	TC20904	32.47	-	-	TC21136	35.72	-	-
1/4	1/4	3/8	2	4	TC20907	36.74	-	-	TC21139	40.42	-	-
5/16	5/16	7/16	2	4	TC20910	53.45	-	-	TC21142	58.79	-	-
3/8	3/8	1/2	2	4	TC20913	59.25	-	-	TC21145	65.17	-	-
7/16	7/16	5/8	2-1/2	4	TC20915	77.18	-	-	TC21147	84.90	-	-
1/2	1/2	5/8	2-1/2	4	TC20916	88.60	TC20951	93.64	TC21148	97.45	TC21173	103.00
5/8	5/8	3/4	3	4	TC20919	174.42	TC20954	179.46	TC21151	183.14	TC21176	188.43
3/4	3/4	1	3	4	TC20922	230.04	TC20957	235.08	TC21154	241.54	TC21179	246.83

**VARIABLE INDEX
REGULAR LENGTH - 4 FLUTE - SQUARE END**



**SERIES V41R
ALTIM COATED**

**SERIES V42R
ALCRO-MAX COATED**

VI-PRO					ALTIM COATED				ALCRO-MAX COATED			
SIZE	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE
1/8	1/8	1/2	2	4	TC21706	30.15	-	-	TC21821	33.17	-	-
3/16	3/16	9/16	2	4	TC21709	34.47	-	-	TC21824	37.91	-	-
1/4	1/4	3/4	2-1/2	4	TC21712	43.75	-	-	TC21827	48.12	-	-
5/16	5/16	13/16	2-1/2	4	TC21715	57.94	-	-	TC21830	63.73	-	-
3/8	3/8	1	2-1/2	4	TC21718	67.87	-	-	TC21833	74.66	-	-
7/16	7/16	1	2-3/4	4	TC21720	84.17	-	-	TC21835	92.58	-	-
1/2	1/2	1	3	4	TC21721	101.81	TC21755	106.85	TC21836	111.99	TC21863	117.53
1/2	1/2	1-1/4	3	4	TC21724	101.81	TC21758	106.85	TC21839	111.99	TC21866	117.53
5/8	5/8	1-5/8	3-1/2	4	TC21727	184.30	TC21761	189.34	TC21842	193.52	TC21869	198.81
3/4	3/4	1-5/8	4	4	TC21730	254.64	TC21764	259.68	TC21845	267.37	TC21872	272.67
1	1	2	4	4	TC21733	475.35	TC21767	480.39	TC21848	499.12	TC21875	504.41

The VI-PRO performs very well in a wide range of materials including:

HIGH TEMP ALLOYS - STAINLESS STEELS - ALLOY STEELS - CAST IRON - HIGH TEMP NICKEL BASE ALLOYS - TITANIUM ALLOYS - EXOTICS

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 177-179.

TOLERANCES	DIAMETER	SHANK
1/8" - 1/2"	+0.000, -0.002	-0.0001, -0.0004
5/8" - 1"	+0.000, -0.003	-0.0001, -0.0004

CARBIDE ENDMILLS - VI-PRO - HIGH PERFORMANCE



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VI-PRO

**VARIABLE INDEX
LONG LENGTH - 4 FLUTE - SQUARE END**



**SERIES V41L
ALTIN COATED**

**SERIES V42L
ALCRO-MAX COATED**

VI-PRO					ALTIN COATED				ALCRO-MAX COATED			
SIZE	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE
1/4	1/4	1-1/8	3	4	TC23000	49.82	-	-	TC23201	54.81	-	-
5/16	5/16	1-1/8	3	4	TC23003	68.93	-	-	TC23204	75.82	-	-
3/8	3/8	1-1/4	3	4	TC23006	92.58	-	-	TC23207	101.84	-	-
7/16	7/16	2	4	4	TC23008	117.43	-	-	TC23209	129.17	-	-
1/2	1/2	1-1/2	4	4	TC23009	127.83	TC23134	132.87	TC23210	140.61	TC23331	146.15
1/2	1/2	2	4	4	TC23012	141.74	TC23137	146.78	TC23213	155.92	TC23334	161.46
5/8	5/8	2-1/4	5	4	TC23015	263.62	TC23140	268.66	TC23216	276.80	TC23337	282.09
3/4	3/4	2-1/4	5	4	TC23018	318.98	TC23143	324.03	TC23219	334.93	TC23340	340.23
1	1	2-1/4	5	4	TC23021	525.72	TC23146	530.77	TC23222	552.01	TC23343	557.30

**VARIABLE INDEX
EXTRA LONG LENGTH - 4 FLUTE - SQUARE END**



**SERIES V41XL
ALTIN COATED**

**SERIES V42XL
ALCRO-MAX COATED**

VI-PRO					ALTIN COATED				ALCRO-MAX COATED			
SIZE	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE
1/4	1/4	1-1/2	4	4	TC24209	59.52	-	-	TC24408	65.47	-	-
3/8	3/8	2	4	4	TC24211	104.33	-	-	TC24411	114.76	-	-
7/16	7/16	3	6	4	TC24212	171.07	-	-	TC24413	188.17	-	-
1/2	1/2	3	6	4	TC24213	199.88	TC24348	204.92	TC24414	219.87	TC24543	225.42
5/8	5/8	3	6	4	TC24215	284.29	TC24351	289.33	TC24417	298.51	TC24546	303.80
3/4	3/4	3	6	4	TC24217	375.26	TC24354	380.30	TC24420	394.02	TC24549	399.31
3/4	3/4	4	7	4	TC24219	616.23	TC24357	621.28	TC24423	647.05	TC24552	652.34
1	1	3	6	4	TC24221	611.80	TC24360	616.84	TC24426	642.39	TC24555	647.68
1	1	4-1/4	7	4	TC24223	903.14	TC24363	908.54	TC24429	947.48	TC24558	952.89

The VI-PRO performs very well in a wide range of materials including:

HIGH TEMP ALLOYS - STAINLESS STEELS - ALLOY STEELS - CAST IRON - HIGH TEMP NICKEL BASE ALLOYS - TITANIUM ALLOYS - EXOTICS

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 177-179.

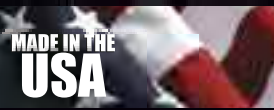
TOLERANCES	DIAMETER	SHANK
1/4" - 1/2"	+0.000, -0.002	-0.001, -0.0004
5/8" - 1"	+0.000, -0.003	-0.001, -0.0004



HIGH PERFORMANCE

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VI-PRO

VARIABLE INDEX

STUB LENGTH - 4 FLUTE - CORNER RADIUS



SERIES V41SR
ALTIM COATED

SERIES V42SR
ALCRO-MAX COATED

SIZE	VI-PRO						ALTIM COATED				ALCRO-MAX COATED			
	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	CORNER RADIUS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	
1/8	1/8	1/4	1-1/2	4	0.008	TC21435	29.09	-	-	TC21503	32.00	-	-	
3/16	3/16	3/8	2	4	0.008	TC21438	36.32	-	-	TC21506	39.96	-	-	
1/4	1/4	3/8	2	4	0.015	TC21441	42.82	-	-	TC21509	47.10	-	-	
5/16	5/16	7/16	2	4	0.015	TC21444	57.63	-	-	TC21512	63.40	-	-	
3/8	3/8	1/2	2	4	0.015	TC21447	63.43	-	-	TC21515	69.78	-	-	
7/16	7/16	5/8	2-1/2	4	0.030	TC21449	81.28	-	-	TC21517	89.41	-	-	
1/2	1/2	5/8	2-1/2	4	0.030	TC21450	96.97	TC21468	102.01	TC21518	106.66	TC21541	112.21	
5/8	5/8	3/4	3	4	0.030	TC21453	182.79	TC21471	187.83	TC21521	191.93	TC21544	197.22	
3/4	3/4	1	3	4	0.030	TC21456	238.41	TC21474	243.45	TC21524	250.33	TC21547	255.62	

The VI-PRO performs very well in a wide range of materials including:

HIGH TEMP ALLOYS - STAINLESS STEELS - ALLOY STEELS - CAST IRON - HIGH TEMP NICKEL BASE ALLOYS - TITANIUM ALLOYS - EXOTICS



ALL TITAN USA TOOLS ARE 100% MADE IN THE USA

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 177-179.

TOLERANCES	DIAMETER	SHANK	RADIUS
1/8" - 1/2"	+0.00, -.002	-.0001, -.0004	+0.01, -.001
5/8" - 3/4"	+0.00, -.003	-.0001, -.0004	+0.01, -.001

CARBIDE ENDMILLS - VI-PRO - HIGH PERFORMANCE



MADE IN THE USA

Solid Carbide Endmills

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VI-PRO

VARIABLE INDEX

REGULAR LENGTH - 4 FLUTE - CORNER RADIUS



**SERIES V41RR
ALTiN COATED**

**SERIES V42RR
ALCRO-MAX COATED**

SIZE	VI-PRO						ALTiN COATED				ALCRO-MAX COATED			
	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	CORNER RADIUS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	
1/8	1/8	1/2	2	4	0.010	TC22211	34.00	-	-	TC22617	37.40	-	-	
1/8	1/8	1/2	2	4	0.020	TC22214	34.00	-	-	TC22620	37.40	-	-	
1/8	1/8	1/2	2	4	0.030	TC22217	34.00	-	-	TC22623	37.40	-	-	
3/16	3/16	9/16	2	4	0.010	TC22220	38.32	-	-	TC22626	42.15	-	-	
3/16	3/16	9/16	2	4	0.020	TC22223	38.32	-	-	TC22629	42.15	-	-	
3/16	3/16	9/16	2	4	0.030	TC22226	38.32	-	-	TC22632	42.15	-	-	
1/4	1/4	3/4	2-1/2	4	0.015	TC22229	47.60	-	-	TC22635	52.36	-	-	
1/4	1/4	3/4	2-1/2	4	0.030	TC22232	47.60	-	-	TC22638	52.36	-	-	
1/4	1/4	3/4	2-1/2	4	0.060	TC22235	47.60	-	-	TC22641	52.36	-	-	
5/16	5/16	13/16	2-1/2	4	0.015	TC22238	61.32	-	-	TC22644	67.45	-	-	
5/16	5/16	13/16	2-1/2	4	0.030	TC22241	61.32	-	-	TC22647	67.45	-	-	
5/16	5/16	13/16	2-1/2	4	0.060	TC22244	61.32	-	-	TC22650	67.45	-	-	
3/8	3/8	1	2-1/2	4	0.015	TC22247	71.60	-	-	TC22653	78.76	-	-	
3/8	3/8	1	2-1/2	4	0.030	TC22250	71.60	-	-	TC22656	78.76	-	-	
3/8	3/8	1	2-1/2	4	0.060	TC22253	71.60	-	-	TC22659	78.76	-	-	
7/16	7/16	1	2-3/4	4	0.015	TC22254	93.45	-	-	TC22660	102.79	-	-	
7/16	7/16	1	2-3/4	4	0.030	TC22255	93.45	-	-	TC22661	102.79	-	-	
7/16	7/16	1	2-3/4	4	0.060	TC22257	93.45	-	-	TC22663	102.79	-	-	
1/2	1/2	1	3	4	0.015	TC22256	114.39	TC22452	120.11	TC22662	125.83	TC22801	132.12	
1/2	1/2	1	3	4	0.030	TC22259	114.39	TC22455	120.11	TC22665	125.83	TC22804	132.12	
1/2	1/2	1	3	4	0.060	TC22262	114.39	TC22458	120.11	TC22668	125.83	TC22807	132.12	
1/2	1/2	1	3	4	0.090	TC22265	114.39	TC22461	120.11	TC22671	125.83	TC22810	132.12	
1/2	1/2	1	3	4	0.120	TC22268	114.39	TC22464	120.11	TC22674	125.83	TC22813	132.12	
1/2	1/2	1-1/4	3	4	0.015	TC22271	114.39	TC22467	120.11	TC22677	125.83	TC22816	132.12	
1/2	1/2	1-1/4	3	4	0.030	TC22274	114.39	TC22470	120.11	TC22680	125.83	TC22819	132.12	
1/2	1/2	1-1/4	3	4	0.060	TC22277	114.39	TC22473	120.11	TC22683	125.83	TC22822	132.12	
1/2	1/2	1-1/4	3	4	0.090	TC22280	114.39	TC22476	120.11	TC22686	125.83	TC22825	132.12	
1/2	1/2	1-1/4	3	4	0.120	TC22283	114.39	TC22479	120.11	TC22689	125.83	TC22828	132.12	
5/8	5/8	1-5/8	3-1/2	4	0.030	TC22286	192.72	TC22482	197.76	TC22692	202.36	TC22831	207.65	
5/8	5/8	1-5/8	3-1/2	4	0.060	TC22289	192.72	TC22485	197.76	TC22695	202.36	TC22834	207.65	
5/8	5/8	1-5/8	3-1/2	4	0.090	TC22292	192.72	TC22488	197.76	TC22698	202.36	TC22837	207.65	
5/8	5/8	1-5/8	3-1/2	4	0.120	TC22295	192.72	TC22491	197.76	TC22701	202.36	TC22840	207.65	
3/4	3/4	1-5/8	4	4	0.030	TC22298	267.25	TC22494	272.29	TC22704	280.61	TC22843	285.91	
3/4	3/4	1-5/8	4	4	0.060	TC22301	267.25	TC22497	272.29	TC22707	280.61	TC22846	285.91	
3/4	3/4	1-5/8	4	4	0.090	TC22304	267.25	TC22500	272.29	TC22710	280.61	TC22849	285.91	
3/4	3/4	1-5/8	4	4	0.120	TC22307	267.25	TC22503	272.29	TC22713	280.61	TC22852	285.91	
1	1	2	4	4	0.030	TC22310	487.96	TC22506	493.00	TC22716	512.35	TC22855	517.65	
1	1	2	4	4	0.060	TC22313	487.96	TC22509	493.00	TC22719	512.35	TC22858	517.65	
1	1	2	4	4	0.090	TC22316	487.96	TC22512	493.00	TC22722	512.35	TC22861	517.65	
1	1	2	4	4	0.120	TC22319	487.96	TC22515	493.00	TC22725	512.35	TC22864	517.65	

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 177-179.

TOLERANCES	DIAMETER	SHANK	RADIUS
1/8" - 1/2"	+0.00, -.002	-.0001, -.0004	+0.01, -.001
5/8" - 1"	+0.00, -.003	-.0001, -.0004	+0.01, -.001

CARBIDE ENDMILLS - VI-PRO - HIGH PERFORMANCE



HIGH PERFORMANCE

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Solid Carbide Endmills



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VI-PRO

VARIABLE INDEX

LONG LENGTH - 4 FLUTE - CORNER RADIUS



**SERIES V41LR
ALTIN COATED**

**SERIES V42LR
ALCRO-MAX COATED**

SIZE	VI-PRO						ALTIN COATED				ALCRO-MAX COATED			
	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	CORNER RADIUS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	
1/4	1/4	1-1/8	3	4	0.015	TC23624	53.67	-	-	TC23820	59.04	-	-	
1/4	1/4	1-1/8	3	4	0.030	TC23627	53.67	-	-	TC23823	59.04	-	-	
5/16	5/16	1-1/8	3	4	0.015	TC23630	73.12	-	-	TC23826	80.43	-	-	
5/16	5/16	1-1/8	3	4	0.030	TC23633	73.12	-	-	TC23829	80.43	-	-	
3/8	3/8	1-1/4	3	4	0.030	TC23636	96.76	-	-	TC23832	106.44	-	-	
3/8	3/8	1-1/4	3	4	0.060	TC23639	96.76	-	-	TC23835	106.44	-	-	
7/16	7/16	2	4	4	0.030	TC23640	124.28	-	-	TC23836	136.71	-	-	
7/16	7/16	2	4	4	0.060	TC23641	124.28	-	-	TC23837	136.71	-	-	
1/2	1/2	1-1/2	4	4	0.030	TC23642	136.20	TC23780	141.24	TC23838	149.82	TC23905	155.36	
1/2	1/2	1-1/2	4	4	0.060	TC23645	136.20	TC23783	141.24	TC23841	149.82	TC23908	155.36	
1/2	1/2	2	4	4	0.030	TC23648	150.11	TC23786	155.16	TC23844	165.12	TC23911	170.67	
1/2	1/2	2	4	4	0.060	TC23651	150.11	TC23789	155.16	TC23847	165.12	TC23914	170.67	
5/8	5/8	2-1/4	5	4	0.030	TC23654	271.99	TC23792	277.03	TC23850	285.59	TC23917	290.88	
5/8	5/8	2-1/4	5	4	0.060	TC23657	271.99	TC23795	277.03	TC23853	285.59	TC23920	290.88	
3/4	3/4	2-1/4	5	4	0.030	TC23660	342.51	TC23798	349.06	TC23856	359.63	TC23923	366.51	
3/4	3/4	2-1/4	5	4	0.060	TC23663	342.51	TC23801	349.06	TC23859	359.63	TC23926	366.51	
1	1	2-1/4	5	4	0.030	TC23666	534.09	TC23804	539.14	TC23862	560.80	TC23929	566.09	
1	1	2-1/4	5	4	0.060	TC23669	534.09	TC23807	539.14	TC23865	560.80	TC23932	566.09	

The VI-PRO performs very well in a wide range of materials including:

HIGH TEMP ALLOYS ■ STAINLESS STEELS ■ ALLOY STEELS ■ CAST IRON ■ HIGH TEMP NICKEL BASE ALLOYS ■ TITANIUM ALLOYS ■ EXOTICS



PVD COATINGS INCREASE CUTTING TOOL PERFORMANCE

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TOLERANCES	DIAMETER	SHANK	RADIUS
1/4" - 1/2"	+0.00, -.002	-.0001, -.0004	+0.01, -.001
5/8" - 1"	+0.00, -.003	-.0001, -.0004	+0.01, -.001



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VI-PRO

VARIABLE INDEX

EXTRA LONG LENGTH - 4 FLUTE - CORNER RADIUS



**SERIES V41XLR
ALTIM COATED**

**SERIES V42XLR
ALCRO-MAX COATED**

SIZE	VI-PRO						ALTIM COATED				ALCRO-MAX COATED			
	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	CORNER RADIUS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	
1/4	1/4	1-1/2	4	4	0.015	TC24913	65.32	-	-	TC25217	71.85	-	-	
1/4	1/4	1-1/2	4	4	0.030	TC24916	65.32	-	-	TC25220	71.85	-	-	
3/8	3/8	2	4	4	0.030	TC24919	110.63	-	-	TC25223	121.69	-	-	
3/8	3/8	2	4	4	0.060	TC24922	110.63	-	-	TC25226	121.69	-	-	
7/16	7/16	3	6	4	0.030	TC24923	175.22	-	-	TC25227	192.74	-	-	
7/16	7/16	3	6	4	0.060	TC24924	175.22	-	-	TC25228	192.74	-	-	
1/2	1/2	3	6	4	0.030	TC24925	206.18	TC25070	211.23	TC25229	226.80	TC25302	232.35	
1/2	1/2	3	6	4	0.060	TC24928	206.18	TC25073	211.23	TC25232	226.80	TC25305	232.35	
5/8	5/8	3	6	4	0.030	TC24931	290.54	TC25076	295.59	TC25235	305.07	TC25308	310.37	
5/8	5/8	3	6	4	0.060	TC24934	290.54	TC25079	295.59	TC25238	305.07	TC25311	310.37	
3/4	3/4	3	6	4	0.030	TC24937	383.63	TC25082	388.67	TC25241	402.81	TC25314	408.10	
3/4	3/4	3	6	4	0.060	TC24940	383.63	TC25085	388.67	TC25244	402.81	TC25317	408.10	
3/4	3/4	4	7	4	0.030	TC24943	624.61	TC25088	629.65	TC25247	655.84	TC25320	661.13	
3/4	3/4	4	7	4	0.060	TC24946	624.61	TC25091	629.65	TC25250	655.84	TC25323	661.13	
1	1	3	6	4	0.030	TC24949	627.93	TC25094	632.98	TC25253	659.33	TC25326	664.62	
1	1	3	6	4	0.060	TC24952	627.93	TC25097	632.98	TC25256	659.33	TC25329	664.62	
1	1	4-1/4	7	4	0.030	TC24955	911.79	TC25100	917.20	TC25259	956.13	TC25332	961.54	
1	1	4-1/4	7	4	0.060	TC24958	911.79	TC25103	917.20	TC25262	956.13	TC25335	961.54	

The VI-PRO performs very well in a wide range of materials including:

HIGH TEMP ALLOYS = STAINLESS STEELS = ALLOY STEELS = CAST IRON = HIGH TEMP NICKEL BASE ALLOYS = TITANIUM ALLOYS = EXOTICS



TITAN HAS OVER 13,000 ITEMS IN STOCK & READY TO SHIP

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 177-179.

TOLERANCES	DIAMETER	SHANK	RADIUS
1/4" - 1/2"	+0.00, -0.02	-0.0001, -0.0004	+0.01, -0.01
5/8" - 1"	+0.00, -0.03	-0.0001, -0.0004	+0.01, -0.01



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VI-PRO

**VARIABLE INDEX
STUB LENGTH - 4 FLUTE - BALL NOSE**



**SERIES V41SB
ALTiN COATED**

**SERIES V42SB
ALCRO-MAX COATED**

VI-PRO					ALTiN COATED				ALCRO-MAX COATED			
SIZE	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE
1/8	1/8	1/4	1-1/2	4	TC25480	29.12	-	-	TC25499	32.03	-	-
3/16	3/16	3/8	2	4	TC25482	37.46	-	-	TC25501	41.21	-	-
1/4	1/4	3/8	2	4	TC25484	42.39	-	-	TC25502	46.64	-	-
5/16	5/16	7/16	2	4	TC25486	61.68	-	-	TC25504	67.84	-	-
3/8	3/8	1/2	2	4	TC25488	68.37	-	-	TC25506	75.20	-	-
7/16	7/16	5/8	2-1/2	4	TC25489	92.04	-	-	TC25507	101.24	-	-
1/2	1/2	5/8	2-1/2	4	TC25490	102.22	TC25496	108.04	TC25508	112.44	TC25514	118.85
5/8	5/8	3/4	3	4	TC25492	201.25	TC25498	207.07	TC25510	211.31	TC25516	217.43
3/4	3/4	1	3	4	TC25494	265.42	TC25500	271.24	TC25512	278.69	TC25518	284.81

**VARIABLE INDEX
REGULAR LENGTH - 4 FLUTE - BALL NOSE**



**SERIES V41RB
ALTiN COATED**

**SERIES V42RB
ALCRO-MAX COATED**

VI-PRO					ALTiN COATED				ALCRO-MAX COATED			
SIZE	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE
1/8	1/8	1/2	2	4	TC25520	34.79	-	-	TC25547	38.27	-	-
3/16	3/16	9/16	2	4	TC25522	39.77	-	-	TC25549	43.75	-	-
1/4	1/4	3/4	2-1/2	4	TC25524	50.48	-	-	TC25550	55.52	-	-
5/16	5/16	13/16	2-1/2	4	TC25526	66.86	-	-	TC25552	73.53	-	-
3/8	3/8	1	2-1/2	4	TC25528	78.31	-	-	TC25554	86.15	-	-
7/16	7/16	1	2-3/4	4	TC25529	107.12	-	-	TC25555	117.83	-	-
1/2	1/2	1	3	4	TC25530	117.47	TC25540	123.29	TC25556	129.22	TC25566	135.62
1/2	1/2	1-1/4	3	4	TC25532	117.47	TC25542	123.29	TC25558	129.22	TC25568	135.62
5/8	5/8	1-5/8	3-1/2	4	TC25534	212.66	TC25544	218.47	TC25560	223.29	TC25570	229.39
3/4	3/4	1-5/8	4	4	TC25536	293.82	TC25546	299.63	TC25562	308.51	TC25572	314.62
1	1	2	4	4	TC25538	548.48	TC25548	554.30	TC25564	575.90	TC25574	582.02

The VI-PRO performs very well in a wide range of materials including:

HIGH TEMP ALLOYS - STAINLESS STEELS - ALLOY STEELS - CAST IRON - HIGH TEMP NICKEL BASE ALLOYS - TITANIUM ALLOYS - EXOTICS

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 177-179.

TOLERANCES	DIAMETER	SHANK
1/8" - 1/2"	+0.00, -0.02	-0.001, -0.004
5/8" - 1"	+0.00, -0.03	-0.001, -0.004

CARBIDE ENDMILLS - VI-PRO - HIGH PERFORMANCE



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VI-PRO

VARIABLE INDEX

LONG LENGTH - 4 FLUTE - BALL NOSE



**SERIES V41LB
ALTiN COATED**

**SERIES V42LB
ALCRO-MAX COATED**

VI-PRO					ALTiN COATED				ALCRO-MAX COATED			
SIZE	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE
1/4	1/4	1-1/8	3	4	TC25576	57.48	-	-	TC25602	63.24	-	-
5/16	5/16	1-1/8	3	4	TC25578	79.54	-	-	TC25604	87.48	-	-
3/8	3/8	1-1/4	3	4	TC25580	106.82	-	-	TC25606	117.50	-	-
7/16	7/16	2	4	4	TC25581	133.12	-	-	TC25607	146.43	-	-
1/2	1/2	1-1/2	4	4	TC25582	147.49	TC25592	153.30	TC25608	162.24	TC25618	168.64
1/2	1/2	2	4	4	TC25584	163.55	TC25594	169.37	TC25610	179.90	TC25620	186.30
5/8	5/8	2-1/4	5	4	TC25586	304.18	TC25596	309.99	TC25612	319.39	TC25622	325.49
3/4	3/4	2-1/4	5	4	TC25588	368.06	TC25598	373.88	TC25614	386.46	TC25624	392.57
1	1	2-1/4	5	4	TC25590	606.60	TC25600	612.42	TC25616	636.93	TC25626	643.04

VARIABLE INDEX

EXTRA LONG LENGTH - 4 FLUTE - BALL NOSE



**SERIES V41XLB
ALTiN COATED**

**SERIES V42XLB
ALCRO-MAX COATED**

VI-PRO					ALTiN COATED				ALCRO-MAX COATED			
SIZE	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE
1/4	1/4	1-1/2	4	4	TC25628	68.68	-	-	TC25656	75.54	-	-
3/8	3/8	2	4	4	TC25630	120.38	-	-	TC25658	132.41	-	-
7/16	7/16	3	6	4	TC25631	197.40	-	-	TC25659	217.14	-	-
1/2	1/2	3	6	4	TC25632	230.63	TC25644	236.45	TC25660	253.69	TC25672	260.10
5/8	5/8	3	6	4	TC25634	328.02	TC25646	333.85	TC25662	344.44	TC25674	350.54
3/4	3/4	3	6	4	TC25636	432.99	TC25648	438.81	TC25664	454.63	TC25676	460.75
3/4	3/4	4	7	4	TC25638	711.04	TC25650	716.86	TC25666	746.59	TC25678	752.71
1	1	3	6	4	TC25640	705.92	TC25652	711.73	TC25668	741.21	TC25680	747.33
1	1	4-1/4	7	4	TC25642	1,042.08	TC25654	1,048.32	TC25670	1,093.25	TC25682	1,099.49

The VI-PRO performs very well in a wide range of materials including:

HIGH TEMP ALLOYS - STAINLESS STEELS - ALLOY STEELS - CAST IRON - HIGH TEMP NICKEL BASE ALLOYS - TITANIUM ALLOYS - EXOTICS

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 177-179.

TOLERANCES	DIAMETER	SHANK
1/4" - 1/2"	+0.00, -0.02	-0.001, -0.004
5/8" - 1"	+0.00, -0.03	-0.001, -0.004

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VI-PRO

VARIABLE INDEX

STUB LENGTH - 5 FLUTE - SQUARE END



SERIES V51S
ALTIM COATED

SERIES V52S
ALCRO-MAX COATED

SIZE	VI-PRO					ALTIM COATED				ALCRO-MAX COATED			
	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	
1/8	1/8	1/4	1-1/2	5	TC25785	27.76	-	-	TC25807	30.53	-	-	
3/16	3/16	3/8	2	5	TC25786	35.72	-	-	TC25809	39.29	-	-	
1/4	1/4	3/8	2	5	TC25787	40.42	-	-	TC25796	44.46	-	-	
5/16	5/16	7/16	2	5	TC25788	58.80	-	-	TC25797	64.68	-	-	
3/8	3/8	1/2	2	5	TC25789	65.18	-	-	TC25798	71.69	-	-	
1/2	1/2	5/8	2-1/2	5	TC25790	97.45	TC25793	103.00	TC25799	107.20	TC25802	113.30	
5/8	5/8	3/4	3	5	TC25791	191.86	TC25794	197.41	TC25800	201.45	TC25803	207.28	
3/4	3/4	1	3	5	TC25792	253.04	TC25795	258.58	TC25801	265.69	TC25804	271.52	

VARIABLE INDEX

REGULAR LENGTH - 5 FLUTE - SQUARE END



SERIES V51R
ALTIM COATED

SERIES V52R
ALCRO-MAX COATED

SIZE	VI-PRO					ALTIM COATED				ALCRO-MAX COATED			
	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	
1/8	1/8	1/2	2	5	TC25806	33.17	-	-	TC25829	36.49	-	-	
3/16	3/16	9/16	2	5	TC25808	37.92	-	-	TC25835	41.71	-	-	
1/4	1/4	3/4	2-1/2	5	TC25810	48.13	-	-	TC25836	52.93	-	-	
5/16	5/16	13/16	2-1/2	5	TC25812	63.74	-	-	TC25838	70.10	-	-	
3/8	3/8	1	2-1/2	5	TC25814	74.66	-	-	TC25840	82.13	-	-	
1/2	1/2	1	3	5	TC25816	111.99	TC25826	117.54	TC25842	123.18	TC25852	129.29	
1/2	1/2	1-1/4	3	5	TC25818	111.99	TC25828	117.54	TC25844	123.18	TC25854	129.29	
5/8	5/8	1-5/8	3-1/2	5	TC25820	202.74	TC25830	208.28	TC25846	212.87	TC25856	218.69	
3/4	3/4	1-5/8	4	5	TC25822	280.10	TC25832	285.65	TC25848	294.11	TC25858	299.94	
1	1	2	4	5	TC25824	522.89	TC25834	528.44	TC25850	549.03	TC25860	554.86	

The VI-PRO performs very well in a wide range of materials including:

HIGH TEMP ALLOYS - STAINLESS STEELS - ALLOY STEELS - CAST IRON - HIGH TEMP NICKEL BASE ALLOYS - TITANIUM ALLOYS - EXOTICS

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 177, 180-181.

TOLERANCES	DIAMETER	SHANK
1/8" - 1/2"	+0.00, -0.02	-0.001, -0.004
5/8" - 1"	+0.00, -0.03	-0.001, -0.004



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VI-PRO

VARIABLE INDEX

LONG LENGTH - 5 FLUTE - SQUARE END



SERIES V51L
ALTIM COATED

SERIES V52L
ALCRO-MAX COATED

VI-PRO					ALTIM COATED				ALCRO-MAX COATED			
SIZE	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE
1/4	1/4	1-1/8	3	5	TC25862	54.80	-	-	TC25888	60.29	-	-
5/16	5/16	1-1/8	3	5	TC25864	75.82	-	-	TC25890	83.40	-	-
3/8	3/8	1-1/4	3	5	TC25866	101.83	-	-	TC25892	112.02	-	-
1/2	1/2	1-1/2	4	5	TC25868	140.61	TC25878	146.15	TC25894	154.67	TC25904	160.77
1/2	1/2	2	4	5	TC25870	155.92	TC25880	161.46	TC25896	171.51	TC25906	177.61
5/8	5/8	2-1/4	5	5	TC25872	289.98	TC25882	295.53	TC25898	304.48	TC25908	310.30
3/4	3/4	2-1/4	5	5	TC25874	350.88	TC25884	356.43	TC25900	368.43	TC25910	374.26
1	1	2-1/4	5	5	TC25876	578.30	TC25886	583.84	TC25902	607.21	TC25912	613.04

VARIABLE INDEX

EXTRA LONG LENGTH - 5 FLUTE - SQUARE END



SERIES V51XL
ALTIM COATED

SERIES V52XL
ALCRO-MAX COATED

VI-PRO					ALTIM COATED				ALCRO-MAX COATED			
SIZE	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE
1/4	1/4	1-1/2	4	5	TC25914	65.47	-	-	TC25942	72.01	-	-
3/8	3/8	2	4	5	TC25916	114.77	-	-	TC25944	126.23	-	-
1/2	1/2	3	6	5	TC25918	219.87	TC25930	225.42	TC25946	241.86	TC25958	247.96
5/8	5/8	3	6	5	TC25920	312.71	TC25932	318.27	TC25948	328.36	TC25960	334.18
3/4	3/4	3	6	5	TC25922	412.79	TC25934	418.33	TC25950	433.42	TC25962	439.25
3/4	3/4	4	7	5	TC25924	677.85	TC25936	683.41	TC25952	711.75	TC25964	717.58
1	1	3	6	5	TC25926	672.97	TC25938	678.52	TC25954	706.62	TC25966	712.45
1	1	4-1/4	7	5	TC25928	993.45	TC25940	999.40	TC25956	1,042.23	TC25968	1,048.18

The VI-PRO performs very well in a wide range of materials including:

HIGH TEMP ALLOYS - STAINLESS STEELS - ALLOY STEELS - CAST IRON - HIGH TEMP NICKEL BASE ALLOYS - TITANIUM ALLOYS - EXOTICS

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 177, 180-181.

TOLERANCES	DIAMETER	SHANK
1/4" - 1/2"	+0.00, -0.02	-0.001, -0.004
5/8" - 1"	+0.00, -0.03	-0.001, -0.004



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VI-PRO

VARIABLE INDEX

STUB LENGTH - 5 FLUTE - CORNER RADIUS



**SERIES V51SR
ALTIM COATED**

**SERIES V52SR
ALCRO-MAX COATED**

VI-PRO						ALTIM COATED				ALCRO-MAX COATED			
SIZE	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	CORNER RADIUS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE
1/8	1/8	1/4	1-1/2	5	0.008	TC25975	31.99	-	-	TC25995	35.19	-	-
3/16	3/16	3/8	2	5	0.008	TC25976	39.95	-	-	TC25996	43.95	-	-
1/4	1/4	3/8	2	5	0.015	TC25977	47.10	-	-	TC25986	51.81	-	-
5/16	5/16	7/16	2	5	0.015	TC25978	63.40	-	-	TC25987	69.74	-	-
3/8	3/8	1/2	2	5	0.015	TC25979	69.78	-	-	TC25988	76.75	-	-
1/2	1/2	5/8	2-1/2	5	0.030	TC25980	106.66	TC25983	112.21	TC25989	117.33	TC25992	123.43
5/8	5/8	3/4	3	5	0.030	TC25981	201.07	TC25984	206.61	TC25990	211.12	TC25993	216.94
3/4	3/4	1	3	5	0.030	TC25982	262.25	TC25985	267.79	TC25991	275.36	TC25994	281.19

The VI-PRO performs very well in a wide range of materials including:

HIGH TEMP ALLOYS - STAINLESS STEELS - ALLOY STEELS - CAST IRON - HIGH TEMP NICKEL BASE ALLOYS - TITANIUM ALLOYS - EXOTICS



3 HIGH CAPACITY PLATIT PL1001 COMPACT COATING MACHINES ENABLE TITAN USA TO PROVIDE UNINTERRUPTED TOOL COATING PRODUCTION.

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 177, 180-181.

TOLERANCES	DIAMETER	SHANK	RADIUS
1/8" - 1/2"	+0.00, -0.02	-0.001, -0.004	+0.01, -0.01
5/8" - 3/4"	+0.00, -0.03	-0.001, -0.004	+0.01, -0.01

CARBIDE ENDMILLS - VI-PRO - HIGH PERFORMANCE



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VI-PRO

VARIABLE INDEX

REGULAR LENGTH - 5 FLUTE - CORNER RADIUS



**SERIES V51RR
ALTIM COATED**

**SERIES V52RR
ALCRO-MAX COATED**

SIZE	VI-PRO						ALTIM COATED				ALCRO-MAX COATED			
	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	CORNER RADIUS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	
1/4	1/4	3/4	2-1/2	5	0.015	TC26201	52.36	-	-	TC26416	57.59	-	-	
1/4	1/4	3/4	2-1/2	5	0.030	TC26204	52.36	-	-	TC26419	57.59	-	-	
1/4	1/4	3/4	2-1/2	5	0.060	TC26207	52.36	-	-	TC26422	57.59	-	-	
5/16	5/16	13/16	2-1/2	5	0.015	TC26210	67.45	-	-	TC26425	74.19	-	-	
5/16	5/16	13/16	2-1/2	5	0.030	TC26213	67.45	-	-	TC26428	74.19	-	-	
5/16	5/16	13/16	2-1/2	5	0.060	TC26216	67.45	-	-	TC26431	74.19	-	-	
3/8	3/8	1	2-1/2	5	0.015	TC26219	78.76	-	-	TC26434	86.64	-	-	
3/8	3/8	1	2-1/2	5	0.030	TC26222	78.76	-	-	TC26437	86.64	-	-	
3/8	3/8	1	2-1/2	5	0.060	TC26225	78.76	-	-	TC26440	86.64	-	-	
1/2	1/2	1	3	5	0.015	TC26228	125.83	TC26321	132.12	TC26443	138.41	TC26625	145.34	
1/2	1/2	1	3	5	0.030	TC26231	125.83	TC26324	132.12	TC26446	138.41	TC26628	145.34	
1/2	1/2	1	3	5	0.060	TC26234	125.83	TC26327	132.12	TC26449	138.41	TC26631	145.34	
1/2	1/2	1	3	5	0.090	TC26237	125.83	TC26330	132.12	TC26452	138.41	TC26634	145.34	
1/2	1/2	1	3	5	0.120	TC26240	125.83	TC26333	132.12	TC26455	138.41	TC26637	145.34	
1/2	1/2	1-1/4	3	5	0.015	TC26243	125.83	TC26336	132.12	TC26458	138.41	TC26640	145.34	
1/2	1/2	1-1/4	3	5	0.030	TC26246	125.83	TC26339	132.12	TC26461	138.41	TC26643	145.34	
1/2	1/2	1-1/4	3	5	0.060	TC26249	125.83	TC26342	132.12	TC26464	138.41	TC26646	145.34	
1/2	1/2	1-1/4	3	5	0.090	TC26252	125.83	TC26345	132.12	TC26467	138.41	TC26649	145.34	
1/2	1/2	1-1/4	3	5	0.120	TC26255	125.83	TC26348	132.12	TC26470	138.41	TC26652	145.34	
5/8	5/8	1-5/8	3-1/2	5	0.030	TC26258	211.99	TC26351	217.54	TC26473	222.59	TC26655	228.42	
5/8	5/8	1-5/8	3-1/2	5	0.060	TC26261	211.99	TC26354	217.54	TC26476	222.59	TC26658	228.42	
5/8	5/8	1-5/8	3-1/2	5	0.090	TC26264	211.99	TC26357	217.54	TC26479	222.59	TC26661	228.42	
5/8	5/8	1-5/8	3-1/2	5	0.120	TC26267	211.99	TC26360	217.54	TC26482	222.59	TC26664	228.42	
3/4	3/4	1-5/8	4	5	0.030	TC26270	293.97	TC26363	299.52	TC26485	308.67	TC26667	314.50	
3/4	3/4	1-5/8	4	5	0.060	TC26273	293.97	TC26366	299.52	TC26488	308.67	TC26670	314.50	
3/4	3/4	1-5/8	4	5	0.090	TC26276	293.97	TC26369	299.52	TC26491	308.67	TC26673	314.50	
3/4	3/4	1-5/8	4	5	0.120	TC26279	293.97	TC26372	299.52	TC26494	308.67	TC26676	314.50	
1	1	2	4	5	0.030	TC26282	536.75	TC26375	542.30	TC26497	563.59	TC26679	569.41	
1	1	2	4	5	0.060	TC26285	536.75	TC26378	542.30	TC26500	563.59	TC26682	569.41	
1	1	2	4	5	0.090	TC26288	536.75	TC26381	542.30	TC26503	563.59	TC26685	569.41	
1	1	2	4	5	0.120	TC26291	536.75	TC26384	542.30	TC26506	563.59	TC26688	569.41	

The VI-PRO performs very well in a wide range of materials including:

HIGH TEMP ALLOYS - STAINLESS STEELS - ALLOY STEELS - CAST IRON - HIGH TEMP NICKEL BASE ALLOYS - TITANIUM ALLOYS - EXOTICS

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 177, 180-181.

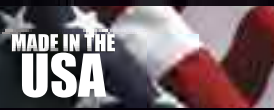
TOLERANCES	DIAMETER	SHANK	RADIUS
1/4" - 1/2"	+0.00, -0.02	-0.001, -0.004	+0.01, -0.01
5/8" - 1"	+0.00, -0.03	-0.001, -0.004	+0.01, -0.01



HIGH PERFORMANCE

YOUR #1 SOURCE FOR AMERICAN-MADE PREMIUM CUTTING TOOLS

Solid Carbide Endmills



TAKE 55% OFF LIST PRICES!

VI-PRO

VARIABLE INDEX

LONG LENGTH - 5 FLUTE - CORNER RADIUS



**SERIES V51LR
ALTIM COATED**

**SERIES V52LR
ALCRO-MAX COATED**

SIZE	VI-PRO					ALTIM COATED				ALCRO-MAX COATED			
	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	CORNER RADIUS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE
1/4	1/4	1-1/8	3	5	0.015	TC26928	59.04	-	-	TC27109	64.94	-	-
1/4	1/4	1-1/8	3	5	0.030	TC26931	59.04	-	-	TC27112	64.94	-	-
5/16	5/16	1-1/8	3	5	0.015	TC26934	80.43	-	-	TC27115	88.47	-	-
5/16	5/16	1-1/8	3	5	0.030	TC26937	80.43	-	-	TC27118	88.47	-	-
3/8	3/8	1-1/4	3	5	0.030	TC26940	106.44	-	-	TC27121	117.08	-	-
3/8	3/8	1-1/4	3	5	0.060	TC26943	106.44	-	-	TC27124	117.08	-	-
1/2	1/2	2	4	5	0.030	TC26946	165.12	TC27000	170.67	TC27127	181.64	TC27262	187.74
1/2	1/2	2	4	5	0.060	TC26949	165.12	TC27003	170.67	TC27130	181.64	TC27265	187.74
5/8	5/8	2-1/4	5	5	0.030	TC26952	299.19	TC27006	304.73	TC27133	314.15	TC27268	319.97
5/8	5/8	2-1/4	5	5	0.060	TC26955	299.19	TC27009	304.73	TC27136	314.15	TC27271	319.97
3/4	3/4	2-1/4	5	5	0.030	TC26958	376.76	TC27012	383.97	TC27139	395.60	TC27274	403.17
3/4	3/4	2-1/4	5	5	0.060	TC26961	376.76	TC27015	383.97	TC27142	395.60	TC27277	403.17
1	1	2-1/4	5	5	0.030	TC26964	587.50	TC27018	593.05	TC27145	616.88	TC27280	622.70
1	1	2-1/4	5	5	0.060	TC26967	587.50	TC27021	593.05	TC27148	616.88	TC27283	622.70



“The achievements of an organization are the results of the combined effort of each individual”

~ TITAN USA ~

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 177, 180-181.

TOLERANCES	DIAMETER	SHANK	RADIUS
1/4" - 1/2"	+0.00, -0.02	-0.001, -0.004	+0.01, -0.01
5/8" - 1"	+0.00, -0.03	-0.001, -0.004	+0.01, -0.01



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TAKE 55% OFF LIST PRICES!

VI-PRO

VARIABLE INDEX

EXTRA LONG LENGTH - 5 FLUTE - CORNER RADIUS



**SERIES V51XLR
ALTIM COATED**

**SERIES V52XLR
ALCRO-MAX COATED**

SIZE	VI-PRO						ALTIM COATED				ALCRO-MAX COATED			
	SHANK DIA.	LENGTH OF CUT	OVERALL LENGTH	# OF FLTS	CORNER RADIUS	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	ROUND SHANK ITEM #	LIST PRICE	WELDON FLAT ITEM #	LIST PRICE	
1/4	1/4	1-1/2	4	5	0.015	TC27604	71.85	-	-	TC27928	79.03	-	-	
1/4	1/4	1-1/2	4	5	0.030	TC27607	71.85	-	-	TC27931	79.03	-	-	
3/8	3/8	2	4	5	0.030	TC27610	121.69	-	-	TC27934	133.86	-	-	
3/8	3/8	2	4	5	0.060	TC27613	121.69	-	-	TC27937	133.86	-	-	
1/2	1/2	3	6	5	0.030	TC27616	226.80	TC27768	232.35	TC27940	249.48	TC28002	255.58	
1/2	1/2	3	6	5	0.060	TC27619	226.80	TC27771	232.35	TC27943	249.48	TC28005	255.58	
5/8	5/8	3	6	5	0.030	TC27622	319.60	TC27774	325.15	TC27946	335.58	TC28008	341.40	
5/8	5/8	3	6	5	0.060	TC27625	319.60	TC27777	325.15	TC27949	335.58	TC28011	341.40	
3/4	3/4	3	6	5	0.030	TC27628	421.99	TC27780	427.54	TC27952	443.09	TC28014	448.91	
3/4	3/4	3	6	5	0.060	TC27631	421.99	TC27783	427.54	TC27955	443.09	TC28017	448.91	
3/4	3/4	4	7	5	0.030	TC27634	687.07	TC27786	692.61	TC27958	721.42	TC28020	727.24	
3/4	3/4	4	7	5	0.060	TC27637	687.07	TC27789	692.61	TC27961	721.42	TC28023	727.24	
1	1	3	6	5	0.030	TC27640	690.73	TC27792	696.27	TC27964	725.26	TC28026	731.09	
1	1	3	6	5	0.060	TC27643	690.73	TC27795	696.27	TC27967	725.26	TC28029	731.09	
1	1	4-1/4	7	5	0.030	TC27646	1,002.97	TC27798	1,008.92	TC27970	1,051.32	TC28032	1,057.80	
1	1	4-1/4	7	5	0.060	TC27649	1,002.97	TC27801	1,008.92	TC27973	1,051.32	TC28035	1,057.80	



TITAN USA - AMERICA'S TOOLING PARTNER FOR OVER 40 YEARS

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TOLERANCES	DIAMETER	SHANK	RADIUS
1/4" - 1/2"	+0.00, -0.02	-0.001, -0.004	+0.01, -0.01
5/8" - 1"	+0.00, -0.03	-0.001, -0.004	+0.01, -0.01