

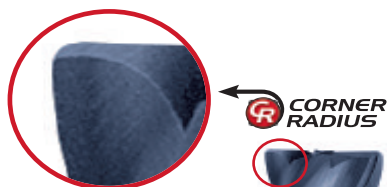
VI-PRO

TITAN's **VI-PRO** is a High Performance, 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 micrograin carbide

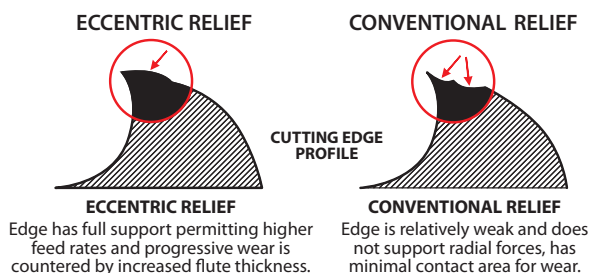
Why use TITAN's Corner Radius tools?

- 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 0.250.



TITAN's High-Performance VI-PRO carbide endmill utilizes a 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

HIGH PERFORMANCE

HP CARBIDE ENDMILLS

VI-PRO

VARIABLE INDEX
STUB LENGTH - 4 FLUTE - SQUARE END



SERIES V41S
ALTiN COATED

SERIES V42S
ALCRO-MAX COATED

**TAKE 55%
OFF LIST
PRICES**

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	TC20901	25.99	-	-	TC21133	28.51	-	-
3/16	3/16	3/8	2	4	TC20904	33.45	-	-	TC21136	36.79	-	-
1/4	1/4	3/8	2	4	TC20907	37.84	-	-	TC21139	41.63	-	-
5/16	5/16	7/16	2	4	TC20910	55.05	-	-	TC21142	60.56	-	-
3/8	3/8	1/2	2	4	TC20913	61.03	-	-	TC21145	67.13	-	-
7/16	7/16	5/8	2-1/2	4	TC20915	79.50	-	-	TC21147	87.45	-	-
1/2	1/2	5/8	2-1/2	4	TC20916	91.25	TC20951	96.45	TC21148	100.38	TC21173	106.09
5/8	5/8	3/4	3	4	TC20919	179.65	TC20954	184.84	TC21151	188.63	TC21176	194.09
3/4	3/4	1	3	4	TC20922	236.94	TC20957	242.13	TC21154	248.78	TC21179	254.24

VARIABLE INDEX
REGULAR LENGTH - 4 FLUTE - SQUARE END



SERIES V41R
ALTiN COATED

SERIES V42R
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	TC21706	31.06	-	-	TC21821	34.16	-	-
3/16	3/16	9/16	2	4	TC21709	35.50	-	-	TC21824	39.05	-	-
1/4	1/4	3/4	2-1/2	4	TC21712	45.06	-	-	TC21827	49.56	-	-
5/16	5/16	13/16	2-1/2	4	TC21715	59.68	-	-	TC21830	65.64	-	-
3/8	3/8	1	2-1/2	4	TC21718	69.91	-	-	TC21833	76.90	-	-
7/16	7/16	1	2-3/4	4	TC21720	86.69	-	-	TC21835	95.36	-	-
1/2	1/2	1	3	4	TC21721	104.86	TC21755	110.05	TC21836	115.35	TC21863	121.06
1/2	1/2	1-1/4	3	4	TC21724	104.86	TC21758	110.05	TC21839	115.35	TC21866	121.06
5/8	5/8	1-5/8	3-1/2	4	TC21727	189.83	TC21761	195.02	TC21842	199.32	TC21869	204.77
3/4	3/4	1-5/8	4	4	TC21730	262.28	TC21764	267.48	TC21845	275.40	TC21872	280.85
1	1	2	4	4	TC21733	489.61	TC21767	494.80	TC21848	514.09	TC21875	519.54

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

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 191-193.

TOLERANCES	DIAMETER	SHANK
1/8" - 1/2"	+0.000, -.002	-.0001, -.0004
5/8" - 1"	+0.000, -.003	-.0001, -.0004

Carbide Endmills

HIGH PERFORMANCE



**TAKE 55%
OFF LIST
PRICES**

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	51.32	-	-	TC23201	56.45	-	-
5/16	5/16	1-1/8	3	4	TC23003	71.00	-	-	TC23204	78.10	-	-
3/8	3/8	1-1/4	3	4	TC23006	95.36	-	-	TC23207	104.89	-	-
7/16	7/16	2	4	4	TC23008	120.95	-	-	TC23209	133.05	-	-
1/2	1/2	1-1/2	4	4	TC23009	131.66	TC23134	136.85	TC23210	144.83	TC23331	150.54
1/2	1/2	2	4	4	TC23012	145.99	TC23137	151.19	TC23213	160.59	TC23334	166.31
5/8	5/8	2-1/4	5	4	TC23015	271.53	TC23140	276.72	TC23216	285.10	TC23337	290.56
3/4	3/4	2-1/4	5	4	TC23018	328.55	TC23143	333.75	TC23219	344.98	TC23340	350.43
1	1	2-1/4	5	4	TC23021	541.49	TC23146	546.69	TC23222	568.57	TC23343	574.02

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	61.30	-	-	TC24408	67.43	-	-
3/8	3/8	2	4	4	TC24211	107.46	-	-	TC24411	118.20	-	-
7/16	7/16	3	6	4	TC24212	176.20	-	-	TC24413	193.82	-	-
1/2	1/2	3	6	4	TC24213	205.88	TC24348	211.07	TC24414	226.47	TC24543	232.18
5/8	5/8	3	6	4	TC24215	292.82	TC24351	298.01	TC24417	307.46	TC24546	312.92
3/4	3/4	3	6	4	TC24217	386.51	TC24354	391.71	TC24420	405.84	TC24549	411.29
3/4	3/4	4	7	4	TC24219	634.72	TC24357	639.92	TC24423	666.46	TC24552	671.91
1	1	3	6	4	TC24221	630.15	TC24360	635.34	TC24426	661.66	TC24555	667.11
1	1	4-1/4	7	4	TC24223	930.23	TC24363	935.80	TC24429	975.91	TC24558	981.48

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 191-193.

TOLERANCES	DIAMETER	SHANK
1/4" - 1/2"	+0.000, -0.002	-0.0001, -0.0004
5/8" - 1"	+0.000, -0.003	-0.0001, -0.0004



YOUR #1 SOURCE FOR AMERICAN-MADE PREMIUM CUTTING TOOLS

MADE IN THE
USA

Carbide Endmills

HIGH PERFORMANCE

HP CARBIDE ENDMILLS

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OFF LIST
PRICES**

VI-PRO

VARIABLE INDEX

STUB LENGTH - 4 FLUTE -  CORNER RADIUS**SERIES V41SR**
ALTIN COATED**SERIES V42SR**
ALCRO-MAX COATED

VI-PRO						ALTIN 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	4	0.008	TC21435	29.96	-	-	TC21503	32.96	-	-
3/16	3/16	3/8	2	4	0.008	TC21438	37.41	-	-	TC21506	41.15	-	-
1/4	1/4	3/8	2	4	0.015	TC21441	44.10	-	-	TC21509	48.51	-	-
5/16	5/16	7/16	2	4	0.015	TC21444	59.36	-	-	TC21512	65.30	-	-
3/8	3/8	1/2	2	4	0.015	TC21447	65.34	-	-	TC21515	71.87	-	-
7/16	7/16	5/8	2-1/2	4	0.030	TC21449	83.72	-	-	TC21517	92.09	-	-
1/2	1/2	5/8	2-1/2	4	0.030	TC21450	99.87	TC21468	105.07	TC21518	109.86	TC21541	115.58
5/8	5/8	3/4	3	4	0.030	TC21453	188.27	TC21471	193.47	TC21521	197.69	TC21544	203.14
3/4	3/4	1	3	4	0.030	TC21456	245.56	TC21474	250.75	TC21524	257.84	TC21547	263.29

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 191-193.

TOLERANCES	DIAMETER	SHANK	RADIUS
1/8" - 1/2"	+0.000, -.002	-.0001, -.0004	+0.001, -.001
5/8" - 3/4"	+0.000, -.003	-.0001, -.0004	+0.001, -.001

Carbide Endmills

HIGH PERFORMANCE



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PRICES**

VI-PRO

VARIABLE INDEX

REGULAR LENGTH - 4 FLUTE -  CORNER RADIUS

SERIES V41RR
ALTIN COATED

SERIES V42RR
ALCRO-MAX COATED

VI-PRO						ALTIN 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	1/2	2	4	0.010	TC22211	35.02	-	-	TC22617	38.53	-	-
1/8	1/8	1/2	2	4	0.020	TC22214	35.02	-	-	TC22620	38.53	-	-
1/8	1/8	1/2	2	4	0.030	TC22217	35.02	-	-	TC22623	38.53	-	-
3/16	3/16	9/16	2	4	0.010	TC22220	39.47	-	-	TC22626	43.41	-	-
3/16	3/16	9/16	2	4	0.020	TC22223	39.47	-	-	TC22629	43.41	-	-
3/16	3/16	9/16	2	4	0.030	TC22226	39.47	-	-	TC22632	43.41	-	-
1/4	1/4	3/4	2-1/2	4	0.015	TC22229	49.02	-	-	TC22635	53.93	-	-
1/4	1/4	3/4	2-1/2	4	0.030	TC22232	49.02	-	-	TC22638	53.93	-	-
1/4	1/4	3/4	2-1/2	4	0.060	TC22235	49.02	-	-	TC22641	53.93	-	-
5/16	5/16	13/16	2-1/2	4	0.015	TC22238	63.16	-	-	TC22644	69.47	-	-
5/16	5/16	13/16	2-1/2	4	0.030	TC22241	63.16	-	-	TC22647	69.47	-	-
5/16	5/16	13/16	2-1/2	4	0.060	TC22244	63.16	-	-	TC22650	69.47	-	-
3/8	3/8	1	2-1/2	4	0.015	TC22247	73.75	-	-	TC22653	81.13	-	-
3/8	3/8	1	2-1/2	4	0.030	TC22250	73.75	-	-	TC22656	81.13	-	-
3/8	3/8	1	2-1/2	4	0.060	TC22253	73.75	-	-	TC22659	81.13	-	-
7/16	7/16	1	2-3/4	4	0.015	TC22254	96.25	-	-	TC22660	105.88	-	-
7/16	7/16	1	2-3/4	4	0.030	TC22255	96.25	-	-	TC22661	105.88	-	-
7/16	7/16	1	2-3/4	4	0.060	TC22257	96.25	-	-	TC22663	105.88	-	-
1/2	1/2	1	3	4	0.015	TC22256	117.82	TC22452	123.72	TC22662	129.60	TC22801	136.09
1/2	1/2	1	3	4	0.030	TC22259	117.82	TC22455	123.72	TC22665	129.60	TC22804	136.09
1/2	1/2	1	3	4	0.060	TC22262	117.82	TC22458	123.72	TC22668	129.60	TC22807	136.09
1/2	1/2	1	3	4	0.090	TC22265	117.82	TC22461	123.72	TC22671	129.60	TC22810	136.09
1/2	1/2	1	3	4	0.120	TC22268	117.82	TC22464	123.72	TC22674	129.60	TC22813	136.09
1/2	1/2	1-1/4	3	4	0.015	TC22271	117.82	TC22467	123.72	TC22677	129.60	TC22816	136.09
1/2	1/2	1-1/4	3	4	0.030	TC22274	117.82	TC22470	123.72	TC22680	129.60	TC22819	136.09
1/2	1/2	1-1/4	3	4	0.060	TC22277	117.82	TC22473	123.72	TC22683	129.60	TC22822	136.09
1/2	1/2	1-1/4	3	4	0.090	TC22280	117.82	TC22476	123.72	TC22686	129.60	TC22825	136.09
1/2	1/2	1-1/4	3	4	0.120	TC22283	117.82	TC22479	123.72	TC22689	129.60	TC22828	136.09
5/8	5/8	1-5/8	3-1/2	4	0.030	TC22286	198.50	TC22482	203.70	TC22692	208.43	TC22831	213.88
5/8	5/8	1-5/8	3-1/2	4	0.060	TC22289	198.50	TC22485	203.70	TC22695	208.43	TC22834	213.88
5/8	5/8	1-5/8	3-1/2	4	0.090	TC22292	198.50	TC22488	203.70	TC22698	208.43	TC22837	213.88
5/8	5/8	1-5/8	3-1/2	4	0.120	TC22295	198.50	TC22491	203.70	TC22701	208.43	TC22840	213.88
3/4	3/4	1-5/8	4	4	0.030	TC22298	275.27	TC22494	280.46	TC22704	289.03	TC22843	294.48
3/4	3/4	1-5/8	4	4	0.060	TC22301	275.27	TC22497	280.46	TC22707	289.03	TC22846	294.48
3/4	3/4	1-5/8	4	4	0.090	TC22304	275.27	TC22500	280.46	TC22710	289.03	TC22849	294.48
3/4	3/4	1-5/8	4	4	0.120	TC22307	275.27	TC22503	280.46	TC22713	289.03	TC22852	294.48
3/4	3/4	1-5/8	4	4	0.190	TC22308	275.27	TC22504	280.46	TC22714	289.03	TC22853	294.49
3/4	3/4	1-5/8	4	4	0.250	TC22309	275.27	TC22505	280.46	TC22715	289.03	TC22854	294.49
1	1	2	4	4	0.030	TC22310	502.59	TC22506	507.79	TC22716	527.72	TC22855	533.18
1	1	2	4	4	0.060	TC22313	502.59	TC22509	507.79	TC22719	527.72	TC22858	533.18
1	1	2	4	4	0.090	TC22316	502.59	TC22512	507.79	TC22722	527.72	TC22861	533.18
1	1	2	4	4	0.120	TC22319	502.59	TC22515	507.79	TC22725	527.72	TC22864	533.18
1	1	2	4	4	0.190	TC22322	502.60	TC22518	507.79	TC22728	527.72	TC22867	533.18
1	1	2	4	4	0.250	TC22325	502.60	TC22521	507.79	TC22731	527.72	TC22870	533.18

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 191-193.

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

HIGH PERFORMANCE

HP CARBIDE ENDMILLS

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PRICES**

VI-PRO

VARIABLE INDEX

LONG LENGTH - 4 FLUTE -  CORNER RADIUS



 **CORNER RADIUS**

SERIES V41LR
ALTiN COATED

SERIES V42LR
ALCRO-MAX COATED

VI-PRO						ALTiN 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
1/4	1/4	1-1/8	3	4	0.015	TC23624	55.28	-	-	TC23820	60.81	-	-
1/4	1/4	1-1/8	3	4	0.030	TC23627	55.28	-	-	TC23823	60.81	-	-
5/16	5/16	1-1/8	3	4	0.015	TC23630	75.31	-	-	TC23826	82.84	-	-
5/16	5/16	1-1/8	3	4	0.030	TC23633	75.31	-	-	TC23829	82.84	-	-
3/8	3/8	1-1/4	3	4	0.030	TC23636	99.67	-	-	TC23832	109.63	-	-
3/8	3/8	1-1/4	3	4	0.060	TC23639	99.67	-	-	TC23835	109.63	-	-
7/16	7/16	2	4	4	0.030	TC23640	128.01	-	-	TC23836	140.81	-	-
7/16	7/16	2	4	4	0.060	TC23641	128.01	-	-	TC23837	140.81	-	-
1/2	1/2	1-1/2	4	4	0.030	TC23642	140.28	TC23780	145.48	TC23838	154.31	TC23905	160.02
1/2	1/2	1-1/2	4	4	0.060	TC23645	140.28	TC23783	145.48	TC23841	154.31	TC23908	160.02
1/2	1/2	2	4	4	0.030	TC23648	154.62	TC23786	159.81	TC23844	170.08	TC23911	175.79
1/2	1/2	2	4	4	0.060	TC23651	154.62	TC23789	159.81	TC23847	170.08	TC23914	175.79
5/8	5/8	2-1/4	5	4	0.030	TC23654	280.15	TC23792	285.34	TC23850	294.16	TC23917	299.61
5/8	5/8	2-1/4	5	4	0.060	TC23657	280.15	TC23795	285.34	TC23853	294.16	TC23920	299.61
3/4	3/4	2-1/4	5	4	0.030	TC23660	352.78	TC23798	359.53	TC23856	370.42	TC23923	377.51
3/4	3/4	2-1/4	5	4	0.060	TC23663	352.78	TC23801	359.53	TC23859	370.42	TC23926	377.51
1	1	2-1/4	5	4	0.030	TC23666	550.12	TC23804	555.31	TC23862	577.62	TC23929	583.08
1	1	2-1/4	5	4	0.060	TC23669	550.12	TC23807	555.31	TC23865	577.62	TC23932	583.08

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

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 191-193.

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

Carbide Endmills

HIGH PERFORMANCE



**TAKE 55%
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VI-PRO**VARIABLE INDEX****EXTRA LONG LENGTH - 4 FLUTE -  CORNER RADIUS**


CORNER
RADIUS
SERIES V41XLR
ALTIM COATED**SERIES V42XLR**
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
1/4	1/4	1-1/2	4	4	0.015	TC24913	67.28	-	-	TC25217	74.00	-	-
1/4	1/4	1-1/2	4	4	0.030	TC24916	67.28	-	-	TC25220	74.00	-	-
3/8	3/8	2	4	4	0.030	TC24919	113.95	-	-	TC25223	125.34	-	-
3/8	3/8	2	4	4	0.060	TC24922	113.95	-	-	TC25226	125.34	-	-
7/16	7/16	3	6	4	0.030	TC24923	180.48	-	-	TC25227	198.52	-	-
7/16	7/16	3	6	4	0.060	TC24924	180.48	-	-	TC25228	198.53	-	-
1/2	1/2	3	6	4	0.030	TC24925	212.37	TC25070	217.56	TC25229	233.61	TC25302	239.32
1/2	1/2	3	6	4	0.060	TC24928	212.37	TC25073	217.56	TC25232	233.61	TC25305	239.32
5/8	5/8	3	6	4	0.030	TC24931	299.26	TC25076	304.45	TC25235	314.22	TC25308	319.68
5/8	5/8	3	6	4	0.060	TC24934	299.26	TC25079	304.45	TC25238	314.22	TC25311	319.68
3/4	3/4	3	6	4	0.030	TC24937	395.14	TC25082	400.33	TC25241	414.89	TC25314	420.35
3/4	3/4	3	6	4	0.060	TC24940	395.14	TC25085	400.33	TC25244	414.89	TC25317	420.35
3/4	3/4	4	7	4	0.030	TC24943	643.34	TC25088	648.54	TC25247	675.51	TC25320	680.96
3/4	3/4	4	7	4	0.060	TC24946	643.34	TC25091	648.54	TC25250	675.51	TC25323	680.96
1	1	3	6	4	0.030	TC24949	646.77	TC25094	651.96	TC25253	679.11	TC25326	684.56
1	1	3	6	4	0.060	TC24952	646.77	TC25097	651.96	TC25256	679.11	TC25329	684.56
1	1	4-1/4	7	4	0.030	TC24955	939.14	TC25100	944.71	TC25259	984.82	TC25332	990.39
1	1	4-1/4	7	4	0.060	TC24958	939.14	TC25103	944.71	TC25262	984.82	TC25335	990.39

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 USA - America's tooling partner for over 43 years****FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 191-193.**

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

Carbide Endmills

HIGH PERFORMANCE

VI-PRO

VARIABLE INDEX
STUB LENGTH - 4 FLUTE - BALL NOSE



SERIES V41SB
ALTIM COATED

SERIES V42SB
ALCRO-MAX COATED

**TAKE 55%
OFF LIST
PRICES**

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	TC25480	29.99	-	-	TC25499	32.99	-	-
3/16	3/16	3/8	2	4	TC25482	38.59	-	-	TC25501	42.45	-	-
1/4	1/4	3/8	2	4	TC25484	43.67	-	-	TC25502	48.04	-	-
5/16	5/16	7/16	2	4	TC25486	63.53	-	-	TC25504	69.88	-	-
3/8	3/8	1/2	2	4	TC25488	70.42	-	-	TC25506	77.46	-	-
7/16	7/16	5/8	2-1/2	4	TC25489	94.80	-	-	TC25507	104.28	-	-
1/2	1/2	5/8	2-1/2	4	TC25490	105.29	TC25496	111.28	TC25508	115.82	TC25514	122.41
5/8	5/8	3/4	3	4	TC25492	207.29	TC25498	213.28	TC25510	217.65	TC25516	223.95
3/4	3/4	1	3	4	TC25494	273.39	TC25500	279.38	TC25512	287.05	TC25518	293.35

VARIABLE INDEX
REGULAR LENGTH - 4 FLUTE - BALL NOSE



SERIES V41RB
ALTIM COATED

SERIES V42RB
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	TC25520	35.84	-	-	TC25547	39.42	-	-
3/16	3/16	9/16	2	4	TC25522	40.97	-	-	TC25549	45.06	-	-
1/4	1/4	3/4	2-1/2	4	TC25524	52.00	-	-	TC25550	57.19	-	-
5/16	5/16	13/16	2-1/2	4	TC25526	68.86	-	-	TC25552	75.74	-	-
3/8	3/8	1	2-1/2	4	TC25528	80.66	-	-	TC25554	88.73	-	-
7/16	7/16	1	2-3/4	4	TC25529	110.33	-	-	TC25555	121.37	-	-
1/2	1/2	1	3	4	TC25530	121.00	TC25540	126.99	TC25556	133.09	TC25566	139.69
1/2	1/2	1-1/4	3	4	TC25532	121.00	TC25542	126.99	TC25558	133.09	TC25568	139.69
5/8	5/8	1-5/8	3-1/2	4	TC25534	219.04	TC25544	225.03	TC25560	229.99	TC25570	236.28
3/4	3/4	1-5/8	4	4	TC25536	302.63	TC25546	308.62	TC25562	317.76	TC25572	324.06
1	1	2	4	4	TC25538	564.94	TC25548	570.93	TC25564	593.18	TC25574	599.48

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 191-193.

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

HIGH PERFORMANCE



**TAKE 55%
OFF LIST
PRICES**

VI-PRO

VARIABLE INDEX

LONG LENGTH - 4 FLUTE - BALL NOSE



SERIES V41LB
ALTIM COATED

SERIES V42LB
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	4	TC25576	59.21	-	-	TC25602	65.13	-	-
5/16	5/16	1-1/8	3	4	TC25578	81.92	-	-	TC25604	90.11	-	-
3/8	3/8	1-1/4	3	4	TC25580	110.02	-	-	TC25606	121.02	-	-
7/16	7/16	2	4	4	TC25581	137.11	-	-	TC25607	150.82	-	-
1/2	1/2	1-1/2	4	4	TC25582	151.91	TC25592	157.90	TC25608	167.11	TC25618	173.70
1/2	1/2	2	4	4	TC25584	168.46	TC25594	174.45	TC25610	185.30	TC25620	191.89
5/8	5/8	2-1/4	5	4	TC25586	313.30	TC25596	319.29	TC25612	328.97	TC25622	335.26
3/4	3/4	2-1/4	5	4	TC25588	379.10	TC25598	385.09	TC25614	398.05	TC25624	404.35
1	1	2-1/4	5	4	TC25590	624.80	TC25600	630.79	TC25616	656.04	TC25626	662.34

VARIABLE INDEX

EXTRA LONG LENGTH - 4 FLUTE - BALL NOSE



SERIES V41XLB
ALTIM COATED

SERIES V42XLB
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	4	TC25628	70.74	-	-	TC25656	77.81	-	-
3/8	3/8	2	4	4	TC25630	123.99	-	-	TC25658	136.39	-	-
7/16	7/16	3	6	4	TC25631	203.32	-	-	TC25659	223.65	-	-
1/2	1/2	3	6	4	TC25632	237.55	TC25644	243.54	TC25660	261.30	TC25672	267.90
5/8	5/8	3	6	4	TC25634	337.87	TC25646	343.87	TC25662	354.77	TC25674	361.05
3/4	3/4	3	6	4	TC25636	445.98	TC25648	451.97	TC25664	468.27	TC25676	474.57
3/4	3/4	4	7	4	TC25638	732.37	TC25650	738.37	TC25666	768.99	TC25678	775.29
1	1	3	6	4	TC25640	727.10	TC25652	733.09	TC25668	763.45	TC25680	769.75
1	1	4-1/4	7	4	TC25642	1,073.34	TC25654	1,079.77	TC25670	1,126.05	TC25682	1,132.47

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 191-193.

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

Carbide Endmills

HIGH PERFORMANCE

VI-PRO VARIABLE INDEX STUB LENGTH - 5 FLUTE - SQUARE END



SERIES V51S
ALTIN COATED

SERIES V52S
ALCRO-MAX COATED

**TAKE 55%
OFF LIST
PRICES**

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	5	TC25785	28.59	-	-	TC25807	31.45	-	-
3/16	3/16	3/8	2	5	TC25786	36.79	-	-	TC25809	40.47	-	-
1/4	1/4	3/8	2	5	TC25787	41.63	-	-	TC25796	45.80	-	-
5/16	5/16	7/16	2	5	TC25788	60.56	-	-	TC25797	66.62	-	-
3/8	3/8	1/2	2	5	TC25789	67.13	-	-	TC25798	73.85	-	-
1/2	1/2	5/8	2-1/2	5	TC25790	100.38	TC25793	106.09	TC25799	110.41	TC25802	116.70
5/8	5/8	3/4	3	5	TC25791	197.62	TC25794	203.33	TC25800	207.49	TC25803	213.50
3/4	3/4	1	3	5	TC25792	260.63	TC25795	266.34	TC25801	273.66	TC25804	279.66

VARIABLE INDEX REGULAR LENGTH - 5 FLUTE - SQUARE END



SERIES V51R
ALTIN COATED

SERIES V52R
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	5	TC25806	34.17	-	-	TC25829	37.58	-	-
3/16	3/16	9/16	2	5	TC25808	39.06	-	-	TC25835	42.96	-	-
1/4	1/4	3/4	2-1/2	5	TC25810	49.58	-	-	TC25836	54.52	-	-
5/16	5/16	13/16	2-1/2	5	TC25812	65.65	-	-	TC25838	72.20	-	-
3/8	3/8	1	2-1/2	5	TC25814	76.90	-	-	TC25840	84.59	-	-
1/2	1/2	1	3	5	TC25816	115.35	TC25826	121.06	TC25842	126.88	TC25852	133.17
1/2	1/2	1-1/4	3	5	TC25818	115.35	TC25828	121.06	TC25844	126.88	TC25854	133.17
5/8	5/8	1-5/8	3-1/2	5	TC25820	208.82	TC25830	214.53	TC25846	219.26	TC25856	225.25
3/4	3/4	1-5/8	4	5	TC25822	288.51	TC25832	294.22	TC25848	302.93	TC25858	308.94
1	1	2	4	5	TC25824	538.58	TC25834	544.29	TC25850	565.50	TC25860	571.51

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 191, 194-195.

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

HIGH PERFORMANCE



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VI-PRO

VARIABLE INDEX

LONG LENGTH - 5 FLUTE - SQUARE END



SERIES V51L
ALTIN COATED

SERIES V52L
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	5	TC25862	56.45	-	-	TC25888	62.10	-	-
5/16	5/16	1-1/8	3	5	TC25864	78.09	-	-	TC25890	85.90	-	-
3/8	3/8	1-1/4	3	5	TC25866	104.89	-	-	TC25892	115.38	-	-
1/2	1/2	1-1/2	4	5	TC25868	144.83	TC25878	150.53	TC25894	159.31	TC25904	165.59
1/2	1/2	2	4	5	TC25870	160.60	TC25880	166.31	TC25896	176.65	TC25906	182.94
5/8	5/8	2-1/4	5	5	TC25872	298.68	TC25882	304.39	TC25898	313.62	TC25908	319.61
3/4	3/4	2-1/4	5	5	TC25874	361.41	TC25884	367.12	TC25900	379.48	TC25910	385.48
1	1	2-1/4	5	5	TC25876	595.65	TC25886	601.35	TC25902	625.43	TC25912	631.43

VARIABLE INDEX

EXTRA LONG LENGTH - 5 FLUTE - SQUARE END



SERIES V51XL
ALTIN COATED

SERIES V52XL
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	5	TC25914	67.43	-	-	TC25942	74.17	-	-
3/8	3/8	2	4	5	TC25916	118.21	-	-	TC25944	130.02	-	-
1/2	1/2	3	6	5	TC25918	226.46	TC25930	232.18	TC25946	249.11	TC25958	255.40
5/8	5/8	3	6	5	TC25920	322.09	TC25932	327.82	TC25948	338.21	TC25960	344.21
3/4	3/4	3	6	5	TC25922	425.18	TC25934	430.88	TC25950	446.42	TC25962	452.43
3/4	3/4	4	7	5	TC25924	698.18	TC25936	703.91	TC25952	733.10	TC25964	739.10
1	1	3	6	5	TC25926	693.16	TC25938	698.88	TC25954	727.82	TC25966	733.82
1	1	4-1/4	7	5	TC25928	1,023.25	TC25940	1,029.38	TC25956	1,073.50	TC25968	1,079.62

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

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 191, 194-195.

TOLERANCES	DIAMETER	SHANK
1/4" - 1/2"	+0.000, -0.002	-0.0001, -0.0004
5/8" - 1"	+0.000, -0.003	-0.0001, -0.0004



YOUR #1 SOURCE FOR AMERICAN-MADE PREMIUM CUTTING TOOLS

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USA

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HIGH PERFORMANCE

HP CARBIDE ENDMILLS

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PRICES**

VI-PRO

VARIABLE INDEX

STUB LENGTH - 5 FLUTE -  CORNER RADIUS



 CORNER RADIUS

SERIES V51SR
ALTiN COATED

SERIES V52SR
ALCRO-MAX COATED

VI-PRO						ALTiN 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	32.95	-	-	TC25995	36.25	-	-
3/16	3/16	3/8	2	5	0.008	TC25976	41.15	-	-	TC25996	45.27	-	-
1/4	1/4	3/8	2	5	0.015	TC25977	48.52	-	-	TC25986	53.37	-	-
5/16	5/16	7/16	2	5	0.015	TC25978	65.30	-	-	TC25987	71.84	-	-
3/8	3/8	1/2	2	5	0.015	TC25979	71.87	-	-	TC25988	79.05	-	-
1/2	1/2	5/8	2-1/2	5	0.030	TC25980	109.86	TC25983	115.57	TC25989	120.85	TC25992	127.13
5/8	5/8	3/4	3	5	0.030	TC25981	207.10	TC25984	212.81	TC25990	217.46	TC25993	223.45
3/4	3/4	1	3	5	0.030	TC25982	270.11	TC25985	275.82	TC25991	283.62	TC25994	289.62

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



Four high capacity Platit PL1001 coating machines enables TITAN USA to provide uninterrupted tool coating production.

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 191, 194-195.

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

HIGH PERFORMANCE



**TAKE 55%
OFF LIST
PRICES**

VI-PRO**VARIABLE INDEX****REGULAR LENGTH - 5 FLUTE -  CORNER RADIUS****SERIES V51RR**
ALTiN COATED**SERIES V52RR**
ALCRO-MAX COATED

VI-PRO						ALTiN 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
1/4	1/4	3/4	2-1/2	5	0.015	TC26201	53.93	-	-	TC26416	59.32	-	-
1/4	1/4	3/4	2-1/2	5	0.030	TC26204	53.93	-	-	TC26419	59.32	-	-
1/4	1/4	3/4	2-1/2	5	0.060	TC26207	53.93	-	-	TC26422	59.32	-	-
5/16	5/16	13/16	2-1/2	5	0.015	TC26210	69.47	-	-	TC26425	76.42	-	-
5/16	5/16	13/16	2-1/2	5	0.030	TC26213	69.47	-	-	TC26428	76.42	-	-
5/16	5/16	13/16	2-1/2	5	0.060	TC26216	69.47	-	-	TC26431	76.42	-	-
3/8	3/8	1	2-1/2	5	0.015	TC26219	81.13	-	-	TC26434	89.24	-	-
3/8	3/8	1	2-1/2	5	0.030	TC26222	81.13	-	-	TC26437	89.24	-	-
3/8	3/8	1	2-1/2	5	0.060	TC26225	81.13	-	-	TC26440	89.24	-	-
1/2	1/2	1	3	5	0.015	TC26228	129.60	TC26321	136.09	TC26443	142.56	TC26625	149.70
1/2	1/2	1	3	5	0.030	TC26231	129.60	TC26324	136.09	TC26446	142.56	TC26628	149.70
1/2	1/2	1	3	5	0.060	TC26234	129.60	TC26327	136.09	TC26449	142.56	TC26631	149.70
1/2	1/2	1	3	5	0.090	TC26237	129.60	TC26330	136.09	TC26452	142.56	TC26634	149.70
1/2	1/2	1	3	5	0.120	TC26240	129.60	TC26333	136.09	TC26455	142.56	TC26637	149.70
1/2	1/2	1-1/4	3	5	0.015	TC26243	129.60	TC26336	136.09	TC26458	142.56	TC26640	149.70
1/2	1/2	1-1/4	3	5	0.030	TC26246	129.60	TC26339	136.09	TC26461	142.56	TC26643	149.70
1/2	1/2	1-1/4	3	5	0.060	TC26249	129.60	TC26342	136.09	TC26464	142.56	TC26646	149.70
1/2	1/2	1-1/4	3	5	0.090	TC26252	129.60	TC26345	136.09	TC26467	142.56	TC26649	149.70
1/2	1/2	1-1/4	3	5	0.120	TC26255	129.60	TC26348	136.09	TC26470	142.56	TC26652	149.70
5/8	5/8	1-5/8	3-1/2	5	0.030	TC26258	218.35	TC26351	224.07	TC26473	229.27	TC26655	235.27
5/8	5/8	1-5/8	3-1/2	5	0.060	TC26261	218.35	TC26354	224.07	TC26476	229.27	TC26658	235.27
5/8	5/8	1-5/8	3-1/2	5	0.090	TC26264	218.35	TC26357	224.07	TC26479	229.27	TC26661	235.27
5/8	5/8	1-5/8	3-1/2	5	0.120	TC26267	218.35	TC26360	224.07	TC26482	229.27	TC26664	235.27
3/4	3/4	1-5/8	4	5	0.030	TC26270	302.79	TC26363	308.51	TC26485	317.93	TC26667	323.93
3/4	3/4	1-5/8	4	5	0.060	TC26273	302.79	TC26366	308.51	TC26488	317.93	TC26670	323.93
3/4	3/4	1-5/8	4	5	0.090	TC26276	302.79	TC26369	308.51	TC26491	317.93	TC26673	323.93
3/4	3/4	1-5/8	4	5	0.120	TC26279	302.79	TC26372	308.51	TC26494	317.93	TC26676	323.93
3/4	3/4	1-5/8	4	5	0.190	TC26280	302.79	TC26373	308.51	TC26495	317.93	TC26677	323.93
3/4	3/4	1-5/8	4	5	0.250	TC26281	302.79	TC26374	308.51	TC26496	317.93	TC26678	323.93
1	1	2	4	5	0.030	TC26282	552.85	TC26375	558.57	TC26497	580.50	TC26679	586.49
1	1	2	4	5	0.060	TC26285	552.85	TC26378	558.57	TC26500	580.50	TC26682	586.49
1	1	2	4	5	0.090	TC26288	552.85	TC26381	558.57	TC26503	580.50	TC26685	586.49
1	1	2	4	5	0.120	TC26291	552.85	TC26384	558.57	TC26506	580.50	TC26688	586.49
1	1	2	4	5	0.190	TC26292	552.85	TC26385	558.57	TC26507	580.50	TC26689	586.49
1	1	2	4	5	0.250	TC26293	552.85	TC26386	558.57	TC26508	580.50	TC26690	586.49

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 191, 194-195.

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

Carbide Endmills

HIGH PERFORMANCE

HP CARBIDE ENDMILLS

**TAKE 55%
OFF LIST
PRICES**

VI-PRO

VARIABLE INDEX

LONG LENGTH - 5 FLUTE -  CORNER RADIUS



 **CORNER RADIUS**

SERIES V51LR
ALTIN COATED

SERIES V52LR
ALCRO-MAX COATED

VI-PRO						ALTIN 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
1/4	1/4	1-1/8	3	5	0.015	TC26928	60.81	-	-	TC27109	66.89	-	-
1/4	1/4	1-1/8	3	5	0.030	TC26931	60.81	-	-	TC27112	66.89	-	-
5/16	5/16	1-1/8	3	5	0.015	TC26934	82.84	-	-	TC27115	91.12	-	-
5/16	5/16	1-1/8	3	5	0.030	TC26937	82.84	-	-	TC27118	91.12	-	-
3/8	3/8	1-1/4	3	5	0.030	TC26940	109.63	-	-	TC27121	120.60	-	-
3/8	3/8	1-1/4	3	5	0.060	TC26943	109.63	-	-	TC27124	120.60	-	-
1/2	1/2	2	4	5	0.030	TC26946	170.08	TC27000	175.79	TC27127	187.09	TC27262	193.37
1/2	1/2	2	4	5	0.060	TC26949	170.08	TC27003	175.79	TC27130	187.09	TC27265	193.37
5/8	5/8	2-1/4	5	5	0.030	TC26952	308.16	TC27006	313.88	TC27133	323.57	TC27268	329.57
5/8	5/8	2-1/4	5	5	0.060	TC26955	308.16	TC27009	313.88	TC27136	323.57	TC27271	329.57
3/4	3/4	2-1/4	5	5	0.030	TC26958	388.06	TC27012	395.49	TC27139	407.46	TC27274	415.26
3/4	3/4	2-1/4	5	5	0.060	TC26961	388.06	TC27015	395.49	TC27142	407.46	TC27277	415.26
1	1	2-1/4	5	5	0.030	TC26964	605.13	TC27018	610.84	TC27145	635.38	TC27280	641.38
1	1	2-1/4	5	5	0.060	TC26967	605.13	TC27021	610.84	TC27148	635.38	TC27283	641.38



Preparing tools in our state-of-the-art, PVD coating center

FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 191, 194-195.

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

Carbide Endmills

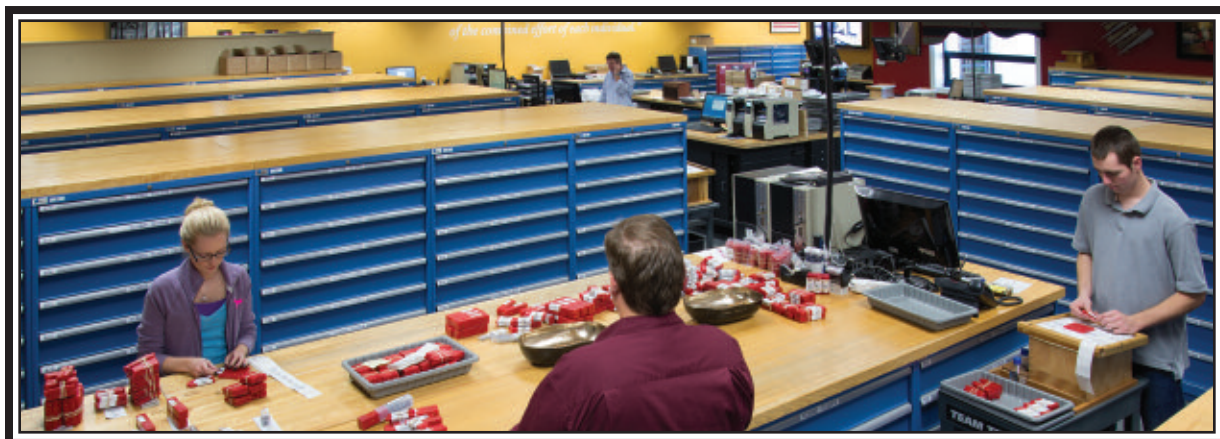
HIGH PERFORMANCE



**TAKE 55%
OFF LIST
PRICES**

VI-PRO**VARIABLE INDEX****EXTRA LONG LENGTH - 5 FLUTE -  CORNER RADIUS****SERIES V51XLR
ALTiN COATED****SERIES V52XLR
ALCRO-MAX COATED**

VI-PRO						ALTiN 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
1/4	1/4	1-1/2	4	5	0.015	TC27604	74.00	-	-	TC27928	81.41	-	-
1/4	1/4	1-1/2	4	5	0.030	TC27607	74.00	-	-	TC27931	81.41	-	-
3/8	3/8	2	4	5	0.030	TC27610	125.34	-	-	TC27934	137.88	-	-
3/8	3/8	2	4	5	0.060	TC27613	125.34	-	-	TC27937	137.88	-	-
1/2	1/2	3	6	5	0.030	TC27616	233.61	TC27768	239.32	TC27940	256.97	TC28002	263.25
1/2	1/2	3	6	5	0.060	TC27619	233.61	TC27771	239.32	TC27943	256.97	TC28005	263.25
5/8	5/8	3	6	5	0.030	TC27622	329.19	TC27774	334.90	TC27946	345.65	TC28008	351.64
5/8	5/8	3	6	5	0.060	TC27625	329.19	TC27777	334.90	TC27949	345.65	TC28011	351.64
3/4	3/4	3	6	5	0.030	TC27628	434.65	TC27780	440.36	TC27952	456.38	TC28014	462.38
3/4	3/4	3	6	5	0.060	TC27631	434.65	TC27783	440.36	TC27955	456.38	TC28017	462.38
3/4	3/4	4	7	5	0.030	TC27634	707.68	TC27786	713.39	TC27958	743.06	TC28020	749.06
3/4	3/4	4	7	5	0.060	TC27637	707.68	TC27789	713.39	TC27961	743.06	TC28023	749.06
1	1	3	6	5	0.030	TC27640	711.45	TC27792	717.16	TC27964	747.02	TC28026	753.02
1	1	3	6	5	0.060	TC27643	711.45	TC27795	717.16	TC27967	747.02	TC28029	753.02
1	1	4-1/4	7	5	0.030	TC27646	1,033.06	TC27798	1,039.18	TC27970	1,082.85	TC28032	1,089.54
1	1	4-1/4	7	5	0.060	TC27649	1,033.06	TC27801	1,039.18	TC27973	1,082.85	TC28035	1,089.54

**TITAN USA has over 13,000 items in stock and ready to ship****FOR VI PRO TECHNICAL AND COATING INFORMATION, PLEASE SEE PAGES 191, 194-195.**

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