

TITANIUM ENDMILLS

**FOR MAXIMUM HIGH
PERFORMANCE
MACHINING**

**3
Flute**

- ◆ **STANDARD LENGTH**
- ◆ **STUB LENGTH**
- ◆ **LONG LENGTH**
- ◆ **RADIUS TOOL**
- ◆ **BALL NOSE**



607-331-4834

CUSTOMISE YOUR TOOL WITH..

***CONTACT US TO HELP MAKE
THE TOOL THAT WORKS BEST
FOR YOU!***



- ☒ ***LENGTH OF CUT***
- ☒ ***OVERALL LENGTH***
- ☒ ***CHIPBREAKER***
- ☒ ***EDGE PREP***
- ☒ ***RADIUS***
- ☒ ***WELDEN FLAT***

Our 3-flute end mills for roughing titanium are great. For MAXIMUM performance in **titanium applications**, we recommend coating the tools in the nano-coating, **STEELCON™**. This is an outstanding combination that allows your end mill to run at peak efficiency in all grades of titanium. The tool's geometry, with its thick core for rigidity and high rake cutting edge as well as the other features identified in the box to the right, is designed to perform well with High-Speed Machining tool paths. If you are looking for an end mill for long life and maximum speed in titanium, this is the choice.

STEELCON™ is applied with “HiPIMS” technology. This technology produces an TiAlSiN based nano-coating that is specifically designed to be extremely smooth, wear resistant and thermally stable with better adhesion to the carbide than ARC or CVD coatings. The application method makes a big difference in performance.

FEATURES OF FACTOOLING'S END MILLS

- MADE IN AMERICA
- 45° HELIX ANGLE
- VARIABLE INDEX
- ECCENTRIC RELIEF
- SOLID CARBIDE TOOLING THAT ALLOWS FOR RESHARPENING
- DESIGNED TO BE AGGRESSIVE TO ALLOW FOR INCREASED SPEEDS AND FEED
- THICK CORE
- CENTER CORE
- COATED IN ALUCON™ (HP)

Speeds and Feeds

3
FLUTE

ISO GROUP S

TITANIUM END MILLS

Material Group	Hardness	ISO Material	Coolant preferred	Contour Milling				
				5%	10%	20%	30%	50%
				2.3	1.8	1.2	1.1	1
				vc-SFM				
High temp alloys	up to 42	S	Yes	300	200	150	110	100
Titanium alloys	up to 42	S	Yes	260	175	125	100	95

Diameter	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1
FZ= in/tooth	0.0004	0.0005	0.0013	0.0016	0.0018	0.0026	0.0032	0.0037	0.0053

Material Group	Hardness	ISO Material	Coolant preferred	Contour Milling		
				25%	50%	100%
				vc-SFM		
High temp alloys	up to 42	S	Yes	140	120	100
Titanium alloys	up to 42	S	Yes	115	100	90

Diameter	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1
FZ= in/tooth	0.0002	0.0003	0.0006	0.0008	0.001	0.0013	0.0016	0.0017	0.0026

PLEASE NOTE: THE INFORMATION ABOVE SHOULD BE CONSIDERED AS ONLY A STARTING POINT. FINE TUNING MAY BE REQUIRED IN ORDER TO GET THE BEST PERFORMANCE OF THE TOOL. EVERY MACHINE , ENVIRONMENT AND FIXTURE CAN PLAY A CRUCIAL PART IN THE PERFORMANCE OF THE TOO

**45°
HELIX**

**SC
STEELCON™**

**3
FLUTE**

Standard Length

Part Number	# of Flutes	Shank Diameter		OAL Length	Flute Length	Radius	Coating
		Inch	Decimal				
FT3T-125	3	1/8	0.125	1-1/2	1/2		Uncoated
FT3T-125-SC	3	1/8	0.125	1-1/2	1/2		SteelCon™
FT3T-187	3	3/16	0.1875	1-1/2	5/8		Uncoated
FT3T-187-SC	3	3/16	0.1875	1-1/2	5/8		SteelCon™
FT3T-250	3	1/4	0.25	2-1/2	3/4		Uncoated
FT3T-250-SC	3	1/4	0.25	2-1/2	3/4		SteelCon™
FT3T-312	3	5/16	0.312	2-1/2	3/4		Uncoated
FT3T-312-SC	3	5/16	0.312	2-1/2	3/4		SteelCon™
FT3T-375	3	3/8	0.375	2-1/2	7/8		Uncoated
FT3T-375-SC	3	3/8	0.375	2-1/2	7/8		SteelCon™
FT3T-500	3	1/2	0.5	3	1-1/4		Uncoated
FT3T-500-SC	3	1/2	0.5	3	1-1/4		SteelCon™
FT3T-625	3	5/8	0.625	3-1/2	1-1/4		Uncoated
FT3T-625-SC	3	5/8	0.625	3-1/2	1-1/4		SteelCon™
FT3T-750	3	3/4	0.75	4	1-1/2		Uncoated
FT3T-750-SC	3	3/4	0.75	4	1-1/2		SteelCon™
FT3T-1000	3	1	1	4	1-1/2		Uncoated
FT3T-1000-SC	3	1	1	4	1-1/2		SteelCon™

ISO GROUP S

TITANIUM END MILLS

45°
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3
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Stub Length

Part Number	# of Flutes	Shank Diameter		OAL	Flute Length	Radius	Coating
		Inch	Decimal				
S-FT3T-187	3	1/8	0.1875	1-1/2	1/4		Uncoated
S-FT3T-187-SC	3	1/8	0.1875	1-1/2	1/4		SteelCon™
S-FT3T-250	3	1/4	0.25	2-1/2	3/8		Uncoated
S-FT3T-250-SC	3	1/4	0.25	2-1/2	3/8		SteelCon™
S-FT3T-312	3	5/16	0.312	2-1/2	3/8		Uncoated
S-FT3T-312-SC	3	5/16	0.312	2-1/2	3/8		SteelCon™
S-FT3T-375	3	3/8	0.375	2-1/2	1/2		Uncoated
S-FT3T-375-SC	3	3/8	0.375	2-1/2	1/2		SteelCon™
S-FT3T-500	3	1/2	0.5	3	5/8		Uncoated
S-FT3T-500-SC	3	1/2	0.5	3	5/8		SteelCon™
S-FT3T-625	3	5/8	0.625	3-1/2	3/4		Uncoated
S-FT3T-625-SC	3	5/8	0.625	3-1/2	3/4		SteelCon™
S-FT3T-750	3	3/4	0.75	4	3/4		Uncoated
S-FT3T-750-SC	3	3/4	0.75	4	3/4		SteelCon™
S-FT3T-1000	3	1	1	4	3/4		Uncoated
S-FT3T-1000-SC	3	1	1	4	3/4		SteelCon™



ISO GROUP P

TITANIUM END MILLS

**45°
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**SC
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**3
FLUTE**

Long Length

ISO GROUP P

TITANIUM END MILLS

Part Number	# of Flutes	Shank Diameter		OAL	Flute Length	Radius	Coating
		Inch	Decimal				
L-FT3T-125	3	1/8	0.125	2	1		Uncoated
L-FT3T-125-SC	3	1/8	0.125	2	1		SteelCon™
L-FT3T-187	3	3/16	0.1875	2	1		Uncoated
L-FT3T-187-SC	3	3/16	0.1875	2	1		SteelCon™
L-FT3T-250	3	1/4	0.25	2-1/2	1-1/4		Uncoated
L-FT3T-250-SC	3	1/4	0.25	2-1/2	1-1/4		SteelCon™
L-FT3T-312	3	5/16	0.312	2-1/2	1-1/4		Uncoated
L-FT3T-312-SC	3	5/16	0.312	2-1/2	1-1/4		SteelCon™
L-FT3T-375	3	3/8	0.375	2-1/2	1-1/4		Uncoated
L-FT3T-375-SC	3	3/8	0.375	2-1/2	1-1/4		SteelCon™
L-FT3T-500	3	1/2	0.5	3	1-1/2		Uncoated
L-FT3T-500-SC	3	1/2	0.5	3	1-1/2		SteelCon™
L-FT3T-625	3	5/8	0.625	3-1/2	1-3/4		Uncoated
L-FT3T-625-SC	3	2/8	0.625	3-1/2	1-3/4		SteelCon™
L-FT3T-750	3	3/4	0.75	4	2		Uncoated
L-FT3T-750-SC	3	3/4	0.75	4	2		SteelCon™
L-FT3T-1000	3	1	1	4	2		Uncoated
L-FT3T-1000-SC	3	1	1	4	2		SteelCon™

45°
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STEELCON™

3
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Radius Tool

Part Number	# of Flutes	Shank Diameter		OAL	Flute Length	Radius	Coating
		Inch	Decimal				
R-FT3T-125-010	3	1/8	0.125	1-1/2	1/2	0.01	Uncoated
R-FT3T-125-SC-010	3	1/8	0.125	1-1/2	1/2	0.01	SteelCon™
R-FT3T-187-010	3	3/16	0.1875	1-1/2	5/8	0.01	Uncoated
R-FT3T-187-SC-010	3	3/16	0.1875	1-1/2	5/8	0.01	SteelCon™
R-FT3T-250-020	3	1/4	0.250	2-1/2	3/4	0.02	Uncoated
R-FT3T-250-SC-020	3	1/4	0.250	2-1/2	3/4	0.02	SteelCon™
R-FT3T-312-020	3	5/16	0.312	2-1/2	3/4	0.02	Uncoated
R-FT3T-312-SC-020	3	5/16	0.312	2-1/2	3/4	0.02	SteelCon™
R-FT3T-375-.030	3	3/8	0.375	2-1/2	7/8	0.03	Uncoated
R-FT3T-375-SC-030	3	3/8	0.375	2-1/2	7/8	0.03	SteelCon™
R-FT3T-500-030	3	1/2	0.500	3	1-14	0.03	Uncoated
R-FT3T-500-SC-030	3	1/2	0.500	3	1-1/4	0.03	SteelCon™
R-FT3T-500-060	3	1/2	0.500	3	1-1/4	0.06	Uncoated
R-FT3T-500-SC-060	3	1/2	0.500	3	1-1/4	0.06	SteelCon™
R-FT3T-625-030	3	5/8	0.625	3-1/2	1-1/4	0.03	Uncoated
R-FT3T-625-SC-030	3	5/8	0.625	3-1/2	1-1/4	0.03	SteelCon™
R-FT3T-625-060	3	5/8	0.625	3-1/2	1-1/4	0.06	Uncoated
R-FT3T-625-SC-060	3	5/8	0.625	3-1/2	1-1/4	0.06	SteelCon™
R-FT3T-750-030	3	3/4	0.750	4	1-1/2	0.03	Uncoated
R-FT3T-750-SC-030	3	3/4	0.750	4	1-1/2	0.03	SteelCon™
R-FT3T-750-060	3	3/4	0.750	4	1-1/2	0.06	Uncoated
R-FT3T-750-SC-060	3	3/4	0.750	4	1-1/2	0.06	SteelCon™
R-FT3T-1000-030	3	1	1	4	1-1/2	0.03	Uncoated
R-FT3T-1000-SC-030	3	1	1	4	1-1/2	0.03	SteelCon™
R-FT3T-1000-060	3	1	1	4	1-1/2	0.06	Uncoated
R-FT3T-1000-SC-060	3	1	1	4	1-1/2	0.06	SteelCon™

ISO GROUP P

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**SC
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**3
FLUTE**

Ball Nose

Part Number	# of Flutes	Shank Diameter		OAL	Flute Length	Radius	Coating
		Inch	Decimal				
B-FT3T-125	3	1/8	0.125	1-1/2	1/2		Uncoated
B-FT3T-125-SC	3	1/8	0.125	1-1/2	1/2		SteelCon™
B-FT3T-187	3	3/16	0.1875	1-1/2	5/8		Uncoated
B-FT3T-187-SC	3	3/16	0.1875	1-1/2	5/8		SteelCon™
B-FT3T-250	3	1/4	0.25	2-1/2	3/4		Uncoated
B-FT3T-250-SC	3	1/4	0.25	2-1/2	3/4		SteelCon™
B-FT3T-312	3	5/16	0.312	2-1/2	3/4		Uncoated
B-FT3T-312-SC	3	5/16	0.312	2-1/2	3/4		SteelCon™
B-FT3T-375	3	3/8	0.375	2-1/2	7/8		Uncoated
B-FT3T-375-SC	3	3/8	0.375	2-1/2	7/8		SteelCon™
B-FT3T-500	3	1/2	0.5	3	1-1/4		Uncoated
B-FT3T-500-SC	3	1/2	0.5	3	1-1/4		SteelCon™
B-FT3T-625	3	5/8	0.625	3-1/2	1-1/4		Uncoated
B-FT3T-625-SC	3	5/8	0.625	3-1/2	1-1/4		SteelCon™
B-FT3T-750	3	3/4	0.75	4	1-1/2		Uncoated
B-FT3T-750-SC	3	3/4	0.75	4	1-1/2		SteelCon™
B-FT3T-1000	3	1	1	4	1-1/2		Uncoated
B-FT3T-1000-SC	3	1	1	4	1-1/2		SteelCon™

BENEFITS OF USING A BALL NOSE END MILL

LONGEVITY OF TOOLS. REMOVING THE SQUARE END OF THE ENDMILL DECREASES WEAR ON THE END OF THE TOOL.

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STEELCON™**

**3
FLUTE**

BENEFITS TO 3 FLUTE

**THICK CORE TO GIVE TIGIDITY
45 DEGREE HELIX TO PROMOTE CHIP REMOVAL**

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MORE
INFROMATION
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