



Fall 2025 Promotion

TC117/TC217

Advance Cutting Taps

TC117 Advance cut tap



TC217 Advance cut tap



Distributed By:



Tool+Cutter
www.toolandcutter.com

**BUY TWO
AND GET A THIRD
FOR FREE!***

* Buy two identical, qualifying taps at regular price, and get a third piece of the same tap at no additional charge.

Offer expires on Wednesday, December 31, 2025

TC117/TC217 FEATURES

- Universal HSS-E cut taps with increased hardness for higher tool life
- Outstanding chip control due to optimized surface finish and specialized coating/surface treatment
- TC117: Stable and wear resistant cutting edges thanks to 40° helix angle
- TC217: Spiral point for secure chip control in thru hole applications
- One single tap for 2B and 3B tolerances
- DIN/ANSI dimensions (DIN length, ANSI shank)



Tool+Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

*** PLEASE SEE THE FOLLOWING 16 PAGES FOR AVAILABLE SIZES ***



Excellent reliability, advanced performance

UNIVERSAL

DIMENSION RANGE: TC117/TC217 Advance

DIN/ANSI

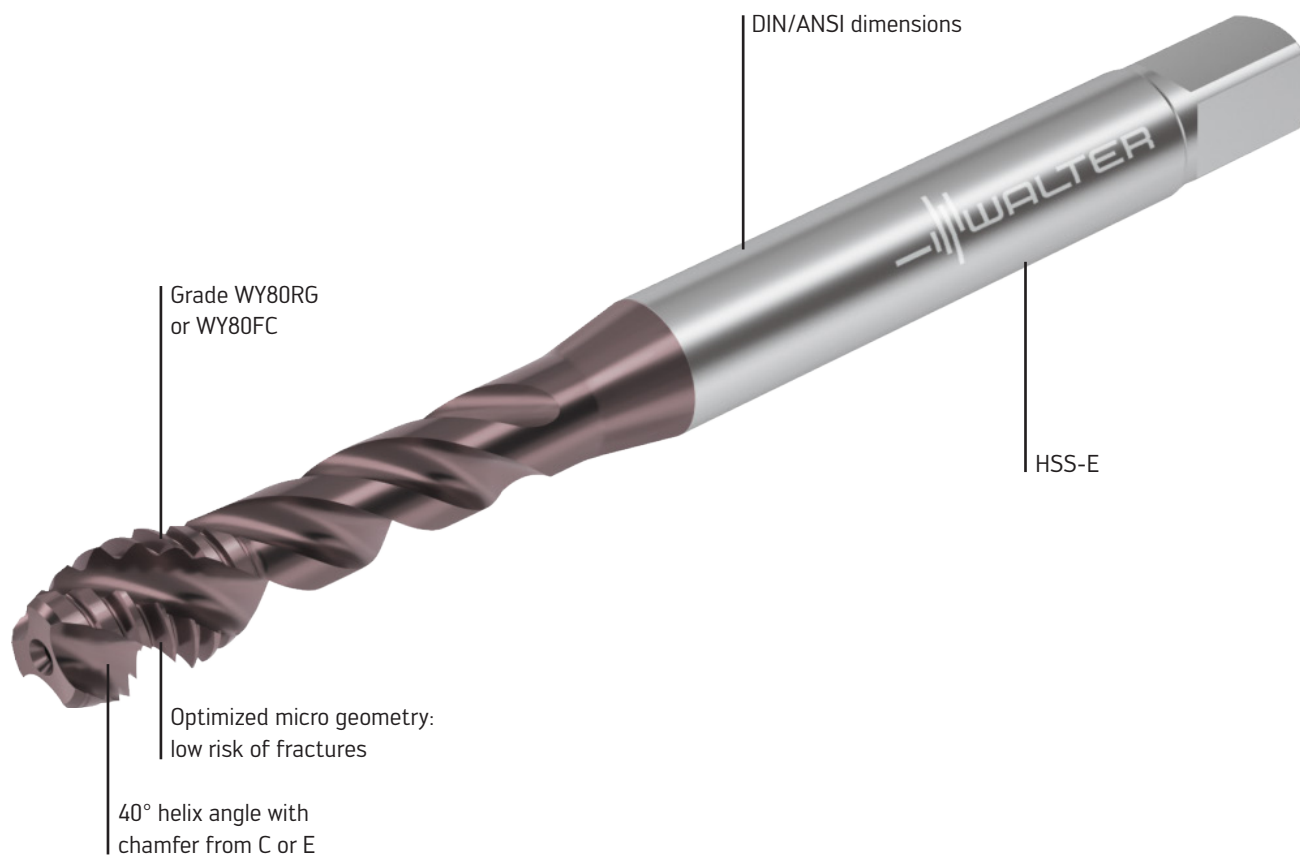
UNC 1-64 - UNC 1 1/2-6
UNF 0-80 - UNF 1 1/4-12
UN 1 1/8-8 - UN 1 5/8-8
UNS 1-14
STIUNC 2-56 - STIUNC 3/8-16
STIUNF 10-32 - STIUNF 3/8-24
M3 - M20

THE TOOLS

- Universal HSS-E cut taps
- Outstanding chip control due to optimized surface finish and specialized coating / surface treatment
- TC117: Stable and wear resistant cutting edges thanks to 40° helix angle
- TC217: HSS-E with increased hardness for higher tool life
- One single tap for 2B and 3B tolerances
- DIN/ANSI dimensions (DIN length, ANSI shank)

THE APPLICATION

- TC117: blind hole threads up to $2,5 \times D_N$
- TC217: through hole threads up to $3,0 \times D_N$
- ISO P, M, K and N materials up to 370 HB
 - unalloyed and alloyed steels
 - stainless steels (austenitic, duplex, ferritic/martensitic)
 - GJS as main application, GJL/CGI as secondary application
 - Al wrought alloys, AlSi alloys up to 12 % Si content
 - Copper and copper alloys as secondary application



TC117 Advance cut tap

Fig.: TC117

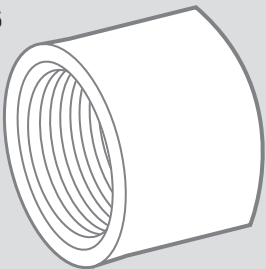


THE GRADES: TC117/TC217

- WY80RG (HSS-E + THL): good chip control, good wear resistance and higher cutting speed
- WY80FC (HSS-E + vap): best chip control, lesser wear resistance and lower cutting speed

APPLICATION EXAMPLE

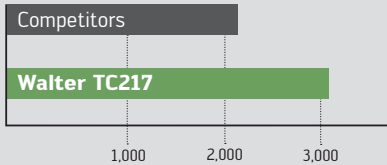
Tapping - Through hole M6



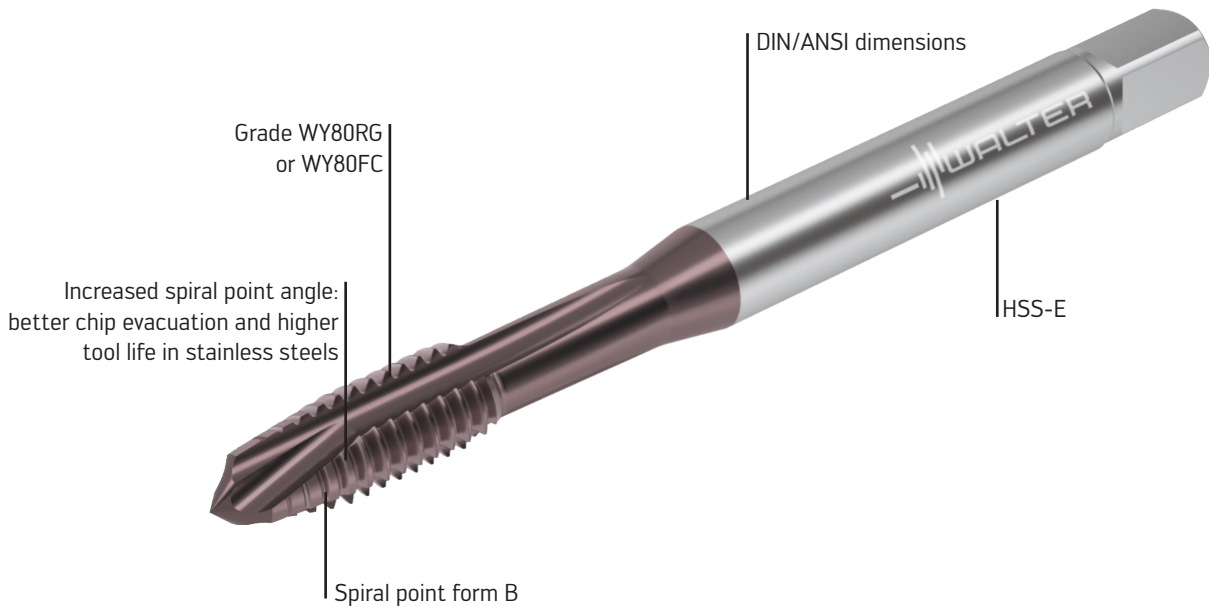
Workpiece Material:	316Ti
Coolant:	emulsion 6%
Thread dimension:	M6
Thread depth	15mm

	Competitors	TC217.M6-C0-WY80FC
v_c (sfm)	10	10
Tool life	2,100	3,050

Comparison Tool life



+45%



TC217 Advance cut tap

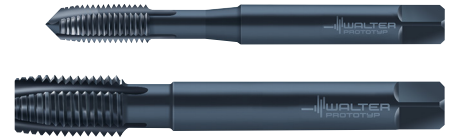
Fig.: TC217

POTENTIAL BENEFITS

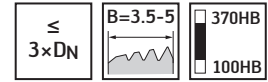
- High productivity in a wide range of different materials
- Excellent process reliability due to outstanding chip control
- Reduced inventory: machining of 2B and 3B tolerances with the same tap
- Large variety of thread types and dimensions available from stock

HSS-E machine taps

TC217 Advance inch shank



- Universal cut tap
- WY80FC: best chip control



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation	D _N	P mm	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC
	TC217.M3-C0-	M 3	0.5	2.205	0.354	0.709	0.141	0.110	0.190	2	●●
	TC217.M4-C0-	M 4	0.7	2.480	0.472	0.827	0.168	0.131	0.250	3	●●
	TC217.M5-C0-	M 5	0.8	2.756	0.512	0.984	0.194	0.152	0.250	3	●●
	TC217.M6-C0-	M 6	1.0	3.150	0.591	1.181	0.255	0.191	0.313	3	●●
	TC217.M8-C0-	M 8	1.25	3.543	0.709	1.378	0.318	0.238	0.380	3	●●
	TC217.M10-C0-	M 10	1.5	3.937	0.787	1.535	0.381	0.286	0.437	3	●●

Order example for grade WY80FC: TC217.M3-C0-WY80FC

DIN/ANSI

Designation	D _N	P mm	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	 in	l _g in	N	WY80FC
TC217.M12-L0-	M 12	1.75	4.331	0.906	3.224	0.367	0.275	0.437	3	
TC217.M16-L0-	M 12	2.0	4.331	0.984	2.587	0.480	0.360	0.563	4	
TC217.M20-L0-	M 16	2.5	5.512	1.181	3.642	0.652	0.489	0.689	4	

Order example for grade WY80FC: TC217.M12-L0-WY80FC



Tool+Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

**WALTER
SELECT**

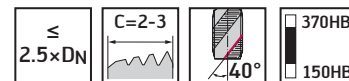
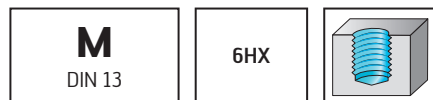
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC117 Advance inch shank



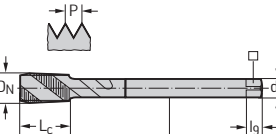
- Universal cut tap
- WY80FC: best chip control
- WY80RG: good chip control and good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation	D _N -P	P mm	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
	TC117.M3-C0-	M 3	0.5	2.205	0.236	0.709	0.141	0.110	0.190	3	●●	●●
	TC117.M4-C0-	M 4	0.7	2.480	0.276	0.827	0.168	0.131	0.250	3	●●	●●
	TC117.M5-C0-	M 5	0.8	2.756	0.315	0.984	0.194	0.152	0.250	3	●●	●●
	TC117.M6-C0-	M 6	1.0	3.150	0.394	1.181	0.255	0.191	0.313	3	●●	●●
	TC117.M8-C0-	M 8	1.25	3.543	0.472	1.378	0.318	0.238	0.380	3	●●	●●
	TC117.M10-C0-	M 10	1.5	3.937	0.591	1.535	0.381	0.286	0.437	3	●●	●●

Order example for grade WY80RG: TC117.M3-C0-WY80RG

DIN/ANSI												
	Designation	D _N -P	P mm	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	 in	l _g in	N	WY80FC	WY80RG
	TC117.M12-L0-	M 12	1.75	4.331	0.630	3.224	0.367	0.275	0.437	4		
	TC117.M16-L0-	M 16	2.0	4.331	0.787	2.587	0.480	0.360	0.563	4		
	TC117.M20-L0-	M 20	2.5	5.512	0.984	3.642	0.652	0.489	0.689	4		

Order example for grade WY80RG: TC117.M12-L0-WY80RG



Tool+Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

WALTER
SELECT

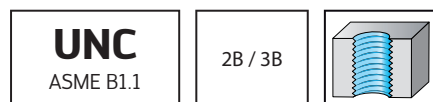
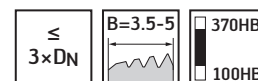
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC217 Advance inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●	●	●	●	●	●	●
WY80RG (TiAlN)	●	●	●	●	●	●	●

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC	WY80RG
	TC217.UNC1-G0-	UNC 1-64	0.073	1.772	0.236	0.354	0.141	0.110	0.190	2	●	●
	TC217.UNC2-G0-	UNC 2-56	0.086	1.772	0.276	0.472	0.141	0.110	0.190	2	●	●
	TC217.UNC3-G0-	UNC 3-48	0.099	1.969	0.315	0.492	0.141	0.110	0.190	2	●	●
	TC217.UNC4-G0-	UNC 4-40	0.112	2.205	0.354	0.709	0.141	0.110	0.190	2	●	●
	TC217.UNC5-G0-	UNC 5-40	0.125	2.205	0.394	0.709	0.141	0.110	0.190	2	●	●
	TC217.UNC6-G0-	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.190	2	●	●
	TC217.UNC8-G0-	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3	●	●
	TC217.UNC10-G0-	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	●	●
	TC217.UNC12-G0-	UNC 12-24	0.216	3.150	0.591	1.181	0.220	0.165	0.281	3	●	●
	TC217.UNC1/4-G0-	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	●	●
	TC217.UNC5/16-G0-	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	●	●
	TC217.UNC3/8-G0-	UNC 3/8-16	0.375	3.937	0.787	1.535	0.381	0.286	0.437	3	●	●

Order example for grade WY80RG: TC217.UNC1-G0-WY80RG

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC	WY80RG
	TC217.UNC7/16-R0-	UNC 7/16-14	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3	●	●
	TC217.UNC1/2-R0-	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.437	3	●	●
	TC217.UNC9/16-R0-	UNC 9/16-12	0.563	4.331	0.984	3.161	0.429	0.322	0.500	4	●	●
	TC217.UNC5/8-R0-	UNC 5/8-11	0.625	4.331	0.984	2.587	0.480	0.360	0.563	4	●	●
	TC217.UNC3/4-R0-	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.689	4	●	●
	TC217.UNC7/8-R0-	UNC 7/8-9	0.875	5.512	1.181	3.583	0.697	0.523	0.750	4	●	●
	TC217.UNC1.0-R0-	UNC 1"-8	1.000	6.299	1.417	3.756	0.800	0.600	0.811	4	●	●

Order example for grade WY80RG: TC217.UNC7/16-R0-WY80RG



Tool & Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

WALTER
SELECT

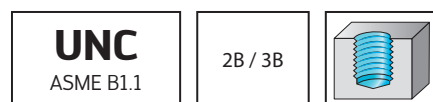
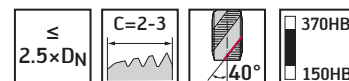
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC117 Advance inch shank

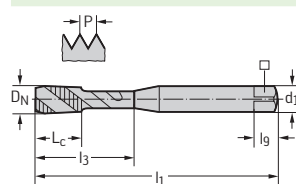


- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●	●	●	●	●	●	●
WY80RG (TiAlN)	●	●	●	●	●	●	●

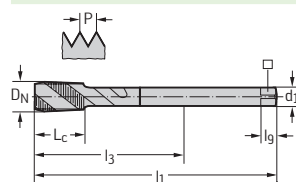
DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N	WY80FC	WY80RG
TC117.UNC1-G0-	UNC 1-64	0.073	1.772	0.157	0.354	0.141	0.110	0.190	3	●	●
TC117.UNC2-G0-	UNC 2-56	0.086	1.772	0.157	0.472	0.141	0.110	0.190	3	●	●
TC117.UNC3-G0-	UNC 3-48	0.099	1.969	0.157	0.492	0.141	0.110	0.190	3	●	●
TC117.UNC4-G0-	UNC 4-40	0.112	2.205	0.236	0.709	0.141	0.110	0.190	3	●	●
TC117.UNC5-G0-	UNC 5-40	0.125	2.205	0.236	0.709	0.141	0.110	0.190	3	●	●
TC117.UNC6-G0-	UNC 6-32	0.138	2.205	0.256	0.787	0.141	0.110	0.190	3	●	●
TC117.UNC8-G0-	UNC 8-32	0.164	2.480	0.276	0.827	0.168	0.131	0.250	3	●	●
TC117.UNC10-G0-	UNC 10-24	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	●	●
TC117.UNC12-G0-	UNC 12-24	0.216	3.150	0.394	1.181	0.220	0.165	0.281	3	●	●
TC117.UNC1/4-G0-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●	●
TC117.UNC5/16-G0-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●	●
TC117.UNC3/8-G0-	UNC 3/8-16	0.375	3.937	0.591	1.614	0.381	0.286	0.437	3	●	●

Order example for grade WY80RG: TC117.UNC1-G0-WY80RG

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N	WY80FC	WY80RG
TC117.UNC7/16-R0-	UNC 7/16-14	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	●	●
TC117.UNC1/2-R0-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.437	4	●	●
TC117.UNC9/16-R0-	UNC 9/16-12	0.563	4.331	0.787	3.161	0.429	0.322	0.500	4	●	●
TC117.UNC5/8-R0-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	4	●	●
TC117.UNC3/4-R0-	UNC 3/4-10	0.750	4.921	0.984	3.051	0.590	0.442	0.689	4	●	●
TC117.UNC7/8-R0-	UNC 7/8-9	0.875	5.512	0.984	3.583	0.697	0.523	0.750	4	●	●
TC117.UNC1-R0-	UNC 1"-8	1.000	6.299	1.181	3.756	0.800	0.600	0.811	4	●	●
TC117.UNC1.1/8-R0-	UNC 1.1/8-7	1.125	7.087	1.378	4.472	0.896	0.672	0.880	5	●	●
TC117.UNC1.1/4-R0-	UNC 1.1/4-7	1.250	7.087	1.378	4.354	1.021	0.766	1.000	5	●	●
TC117.UNC1.1/2-R0-	UNC 1.1/2-6	1.500	7.874	1.575	3.953	1.233	0.925	1.126	5	●	●

Order example for grade WY80RG: TC117.UNC7/16-R0-WY80RG



Tool & Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

WALTER
SELECT

● ● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

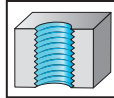
TC217 Advance inch shank



– Universal cut tap

UNC
ASME B1.1

+0.003"
(H7)



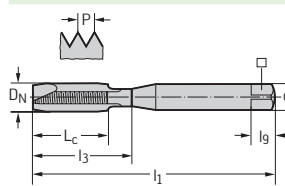
≤
3×D_N

B=3.5-5

370HB
100HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ h9 in	L _C in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80RG
TC217.UNC6-E0-	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.190	2	●●
TC217.UNC8-E0-	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3	●●
TC217.UNC10-E0-	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	●●
TC217.UNC1/4-E0-	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	●●
TC217.UNC5/16-E0-	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80RG: TC217.UNC6-E0-WY80RG



Tool+Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

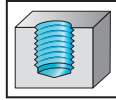
TC117 Advance inch shank



– Universal cut tap

UNC
ASME B1.1

+.003"
(H7)



$\leq$
 $2.5 \times D_N$

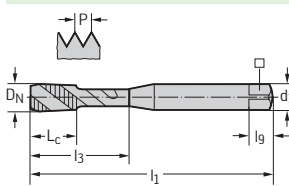
C=2-3



370HB
150HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	$\square$ in	l _g in	N	WY80RG
TC117.UNC6-E0-	UNC 6-32	0.138	2.205	0.256	0.827	0.141	0.110	0.190	3	●●
TC117.UNC8-E0-	UNC 8-32	0.164	2.480	0.276	0.984	0.168	0.131	0.250	3	●●
TC117.UNC1/4-E0-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●●
TC117.UNC5/16-E0-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80RG: TC117.UNC6-E0-WY80RG



Tool+Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC217 Advance

inch shank



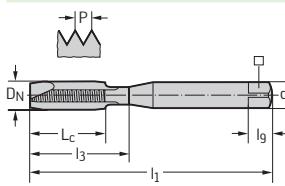
- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance

$\leq 3 \times D_N$	$B=3.5-5$	370HB
		100HB



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

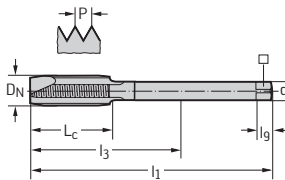
DIN/ANSI



Designation	D _N -P	D _N in	h ₉ in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC	WY80RG
TC217.UNF0-G0-	UNF 0-80	0.060	1.575	0.256	0.256	0.141	0.110	0.190	2	●●	●●
TC217.UNF1-G0-	UNF 1-72	0.073	1.772	0.236	0.354	0.141	0.110	0.190	2	●●	●●
TC217.UNF3-G0-	UNF 3-56	0.099	1.969	0.315	0.492	0.141	0.110	0.190	2	●●	●●
TC217.UNF4-G0-	UNF 4-48	0.112	2.205	0.354	0.709	0.141	0.110	0.190	2	●●	●●
TC217.UNF5-G0-	UNF 5-44	0.125	2.205	0.394	0.709	0.141	0.110	0.190	2	●●	●●
TC217.UNF6-G0-	UNF 6-40	0.138	2.205	0.433	0.787	0.141	0.110	0.190	2	●●	●●
TC217.UNF8-G0-	UNF 8-36	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3	●●	●●
TC217.UNF10-G0-	UNF 10-32	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	●●	●●
TC217.UNF12-G0-	UNF 12-28	0.216	3.150	0.591	1.181	0.220	0.165	0.281	3	●●	●●
TC217.UNF1/4-G0-	UNF 1/4-28	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	●●	●●
TC217.UNF5/16-G0-	UNF 5/16-24	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	●●	●●
TC217.UNF3/8-G0-	UNF 3/8-24	0.375	3.543	0.787	1.535	0.381	0.286	0.437	3	●●	●●

Order example for grade WY80RG: TC217.UNF0-G0-WY80RG

DIN/ANSI



Designation	D _N -P	D _N in	h ₉ in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC	WY80RG
TC217.UNF7/16-R0-	UNF 7/16-20	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3	●●	●●
TC217.UNF1/2-R0-	UNF 1/2-20	0.500	3.937	0.827	2.831	0.367	0.275	0.437	4	●●	●●
TC217.UNF9/16-R0-	UNF 9/16-18	0.563	3.937	0.827	2.768	0.429	0.322	0.500	4	●●	●●
TC217.UNF5/8-R0-	UNF 5/8-18	0.625	3.937	0.827	2.193	0.480	0.360	0.563	4	●●	●●
TC217.UNF3/4-R0-	UNF 3/4-16	0.750	4.331	0.945	2.461	0.590	0.442	0.689	4	●●	●●
TC217.UNF7/8-R0-	UNF 7/8-14	0.875	4.921	0.945	2.992	0.697	0.523	0.750	4	●●	●●
TC217.UNF1.0-R0-	UNF 1"-12	1.000	5.512	1.024	2.969	0.800	0.600	0.811	4	●●	●●

Order example for grade WY80RG: TC217.UNF7/16-R0-WY80RG



Tool+Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

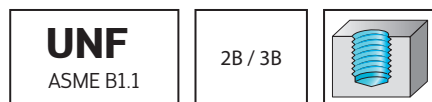
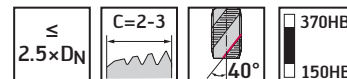
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC117 Advance inch shank

- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
	TC117.UNF0-G0-	UNF 0-80	0.060	1.575	0.197	0.197	0.141	0.110	0.190	3	●●	●●
	TC117.UNF1-G0-	UNF 1-72	0.073	1.772	0.157	0.354	0.141	0.110	0.190	3	●●	●●
	TC117.UNF2-G0-	UNF 2-64	0.086	1.772	0.157	0.472	0.141	0.110	0.190	3	●●	●●
	TC117.UNF3-G0-	UNF 3-56	0.099	1.969	0.157	0.492	0.141	0.110	0.190	3	●●	●●
	TC117.UNF4-G0-	UNF 4-48	0.112	2.205	0.236	0.709	0.141	0.110	0.190	3	●●	●●
	TC117.UNF5-G0-	UNF 5-44	0.125	2.205	0.236	0.709	0.141	0.110	0.190	3	●●	●●
	TC117.UNF6-G0-	UNF 6-40	0.138	2.205	0.256	0.787	0.141	0.110	0.190	3	●●	●●
	TC117.UNF8-G0-	UNF 8-36	0.164	2.480	0.276	0.827	0.168	0.131	0.250	3	●●	●●
	TC117.UNF10-G0-	UNF 10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	●●	●●
	TC117.UNF12-G0-	UNF 12-28	0.216	3.150	0.394	1.181	0.220	0.165	0.281	3	●●	●●
	TC117.UNF1/4-G0-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●●	●●
	TC117.UNF5/16-G0-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●●	●●
	TC117.UNF3/8-G0-	UNF 3/8-24	0.375	3.543	0.472	1.535	0.381	0.286	0.437	3	●●	●●

Order example for grade WY80RG: TC117.UNF0-G0-WY80RG

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
	TC117.UNF7/16-R0-	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	●●	●●
	TC117.UNF1/2-R0-	UNF 1/2-20	0.500	3.937	0.591	2.831	0.367	0.275	0.437	4	●●	●●
	TC117.UNF9/16-R0-	UNF 9/16-18	0.563	3.937	0.591	2.768	0.429	0.322	0.500	4	●●	●●
	TC117.UNF5/8-R0-	UNF 5/8-18	0.625	3.937	0.591	2.193	0.480	0.360	0.563	4	●●	●●
	TC117.UNF3/4-R0-	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4	●●	●●
	TC117.UNF7/8-R0-	UNF 7/8-14	0.875	4.921	0.709	2.992	0.697	0.523	0.750	4	●●	●●
	TC117.UNF1.0-R0-	UNF 1"-12	1.000	5.512	0.787	2.969	0.800	0.600	0.811	5	●●	●●
	TC117.UNF1.1/8-R0-	UNF 1.1/8-12	1.125	5.906	0.787	3.291	0.896	0.672	0.880	5	●●	●●
	TC117.UNF1.1/4-R0-	UNF 1.1/4-12	1.250	5.906	0.787	3.173	1.021	0.766	1.000	5	●●	●●

Order example for grade WY80RG: TC117.UNF7/16-R0-WY80RG



Tool & Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM



**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

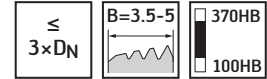
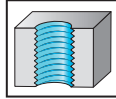
TC217 Advance inch shank



– Universal cut tap

UNF
ASME B1.1

+.003"
(H7)



	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80RG
	TC217.UNF6-E0-	UNF 6-40	0.138	2.205	0.433	0.787	0.141	0.110	0.190	2	✖
	TC217.UNF10-E0-	UNF 10-32	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	✖
	TC217.UNF1/4-E0-	UNF 1/4-28	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	✖
	TC217.UNF5/16-E0-	UNF 5/16-24	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	✖

Order example for grade WY80RG: TC217.UNF6-E0-WY80RG



Tool+Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E machine taps

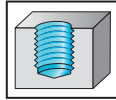
TC117 Advance inch shank



– Universal cut tap

UNF
ASME B1.1

+.003"
(H7)



$\leq$
 $2.5 \times D_N$

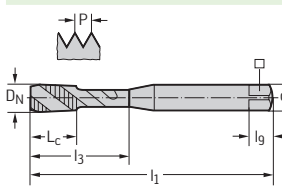
C=2-3

$\angle 40^\circ$

370HB
150HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI



Designation	D _N -P	D _N in	L ₁ in	L _C in	L ₃ in	d ₁ h9 in	$\square$ in	L _g in	N	WY80RG
TC117.UNF10-E0-	UNF 10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	●●
TC117.UNF1/4-E0-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●●
TC117.UNF5/16-E0-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80RG: TC117.UNF10-E0-WY80RG



Tool+Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

**WALTER
SELECT**

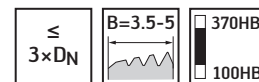
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC217 Advance



- Universal cut tap
- WY80FC: best chip control



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h ₉ in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC
	TC217.STIUNC2-B0-	STI-UNC 2-56	0.109	2.205	0.354	0.709	0.141	0.110	0.190	2	✘
	TC217.STIUNC4-B0-	STI-UNC 4-40	0.144	2.205	0.472	0.827	0.141	0.110	0.190	2	✘
	TC217.STIUNC6-B0-	STI-UNC 6-32	0.179	2.756	0.512	0.984	0.194	0.152	0.250	3	✘
	TC217.STIUNC8-B0-	STI-UNC 8-32	0.205	2.756	0.591	0.984	0.194	0.152	0.250	3	✘
	TC217.STIUNC10-B0-	STI-UNC 10-24	0.244	3.150	0.591	1.181	0.255	0.191	0.313	3	✘
	TC217.STIUNC1/4B0-	STI-UNC 1/4-20	0.315	3.543	0.709	1.378	0.318	0.238	0.380	3	✘

Order example for grade WY80FC: TC217.STIUNC2-B0-WY80FC

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h ₉ in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC
	TC217.STIUNC3/8K0-	STI-UNC 3/8-16	0.456	3.937	0.827	2.831	0.367	0.275	0.437	4	✘

Order example for grade WY80FC: TC217.STIUNC3/8K0-WY80FC



Tool & Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

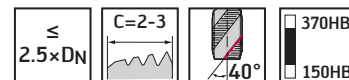
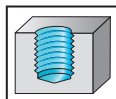
TC117 Advance inch shank



- Universal cut tap
- WY80FC: best chip control

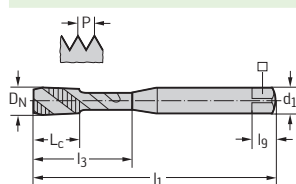
STI-UNC
NASM 33537

3B



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●

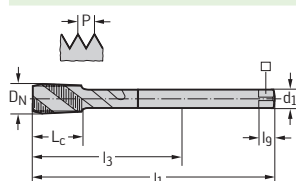
DIN/ANSI



Designation	DN-P	DN in	l1 in	Lc in	l3 in	d1 h9 in	in	lg in	N	WY80FC
TC117.STIUNC2-B0-	STI-UNC 2-56	0.109	2.205	0.236	0.709	0.141	0.110	0.190	3	●●
TC117.STIUNC4-B0-	STI-UNC 4-40	0.144	2.205	0.276	0.827	0.141	0.110	0.190	3	●●
TC117.STIUNC6-B0-	STI-UNC 6-32	0.179	2.756	0.315	0.984	0.194	0.152	0.250	3	●●
TC117.STIUNC8-B0-	STI-UNC 8-32	0.205	2.756	0.394	0.984	0.194	0.152	0.250	3	●●
TC117.STIUNC10-B0-	STI-UNC 10-24	0.244	3.150	0.394	1.181	0.255	0.191	0.313	3	●●
TC117.STIUNC1/4B0-	STI-UNC 1/4-20	0.315	3.543	0.472	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80FC: TC117.STIUNC2-B0-WY80FC

DIN/ANSI



Designation	DN-P	DN in	l1 in	Lc in	l3 in	d1 h9 in	in	lg in	N	WY80FC
TC117.STIUNC3/8K0-	STI-UNC 3/8-16	0.456	3.937	0.591	2.831	0.367	0.275	0.437	3	●●

Order example for grade WY80FC: TC117.STIUNC3/8K0-WY80FC



Tool+Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

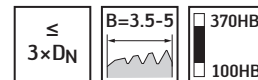
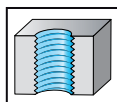
TC217 Advance inch shank



- Universal cut tap
- WY80FC: best chip control

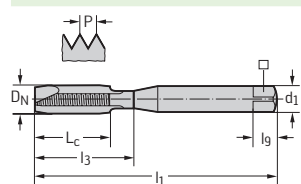
STI-UNF
NASM 33537

3B



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●

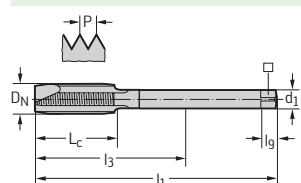
DIN/ANSI



Designation	DN-P	DN in	l1 h9 in	Lc in	l3 in	d1 in	in	lg in	N	WY80FC
TC217.STIUNF10-B0-	STI-UNC 10-32	0.231	3.150	0.591	1.181	0.255	0.191	0.313	3	●●
TC217.STIUNF1/4B0-	STI-UNC 1/4-28	0.296	3.543	0.709	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80FC: TC217.STIUNF10-B0-WY80FC

DIN/ANSI



Designation	DN-P	DN in	l1 h9 in	Lc in	l3 in	d1 in	in	lg in	N	WY80FC
TC217.STIUNF3/8K0-	STI-UNC 3/8-24	0.456	3.937	0.787	2.862	0.323	0.242	0.406	3	●●

Order example for grade WY80FC: TC217.STIUNF3/8K0-WY80FC



Tool & Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM



**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

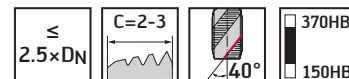
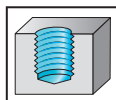
TC117 Advance inch shank



- Universal cut tap
- WY80FC: best chip control

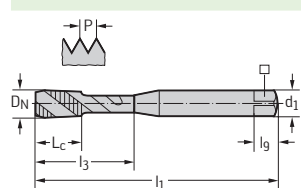
STI-UNF
NASM 33537

3B



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●

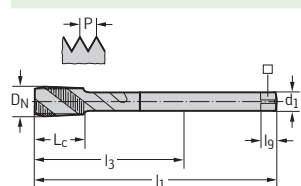
DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC
TC117.STIUNF10-B0-	STI-UNC 10-32	0.231	3.150	0.394	1.181	0.255	0.191	0.313	3	●●
TC117.STIUNF1/4B0-	STI-UNC 1/4-28	0.296	3.543	0.472	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80FC: TC117.STIUNF10-B0-WY80FC

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC
TC117.STIUNF3/8K0-	STI-UNC 3/8-24	0.456	3.937	0.591	2.862	0.323	0.242	0.406	3	●●

Order example for grade WY80FC: TC117.STIUNF3/8K0-WY80FC



Tool+Cutter
Specialists in Cutting Tools Since 1969



phone - 800-265-6056
email - support@toolandcutter.com



WWW.TOOLANDCUTTER.COM

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions