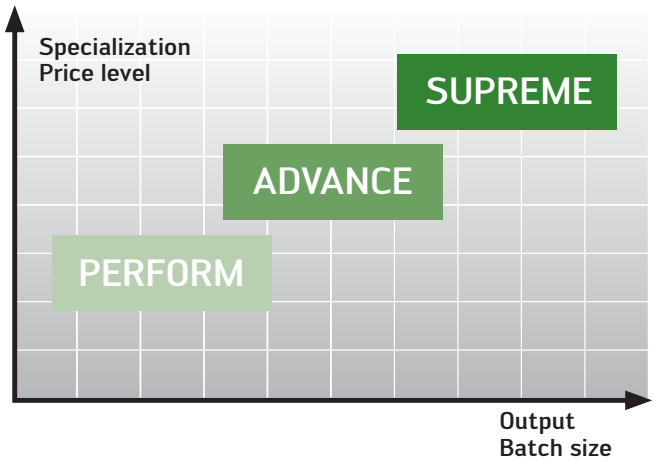
_EXPERTISE IN MACHINING

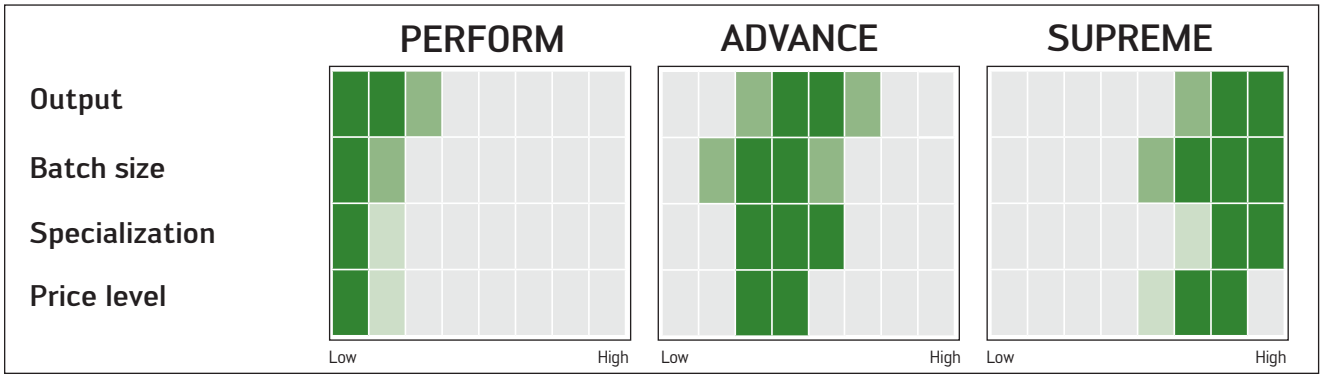
TC115/TC216 – The new standard for threading small and medium batch sizes.

WALTER PROTOTYP

The Walter product line – Expertise to the power of three.

All Walter tools are differentiated by maximum precision and process reliability. Real added value is created when you find a range that exactly matches every requirement. Walter gives the right answer to what you're looking for – with three product lines in the premium product segment.





SUPREME
In the Supreme line, you will find tools with special characteristics in the high-end range. They are always the first choice when maximum cutting speeds and long tool life for high batch sizes are required. The Supreme tools are designed for machining very specific material groups and often outperform comparable tools.

ADVANCE
Are you looking for just the right balance between manufacturing products as cost effectively as possible and long tool life? The tools from the Advance line display their strengths in series production of medium batch sizes. In addition to making a favorably priced investment, the distinctive features are excellent performance data in a comprehensive range.

PERFORM
The tools from the Perform line ensure that you enjoy a high level of cost efficiency and a wide range of applications. They are ideal for an extremely wide range of various materials, in situations involving smaller and medium batch sizes.

_ PERFORM LINE

TC115/TC216 – Cost efficient and just the right tools for the job.

What users with small and medium batch sizes are most looking for is a tool that provides flexibility and cost efficiency. For them, the new Walter TC115 and TC216 taps are the solution that perfectly meets their requirements. They can be used for the most diverse of materials, and are made specifically for producing threads of high quality, while still maintaining cost efficiency.

TC115/TC216 – THE FIRST TAPS FROM THE PERFORM LINE

Threading demands reliable processes and tools that can be used as universally as possible, since conditions can vary widely according to material and workpiece. With geometries and coatings that are perfectly suited to the application, TC115 and TC216 taps easily handle this challenge.

_ PERFORM LINE

TC115/TC216 –
For the most diverse of materials.

THE TOOL

- HSS-E machine tap
- TC115: For blind holes up to 3 x D_N
- TC216: For through holes up to 3.5 x D_N
- ISO2/6H tolerances
- Two variants: TIN-coated or vaporized

THE APPLICATION

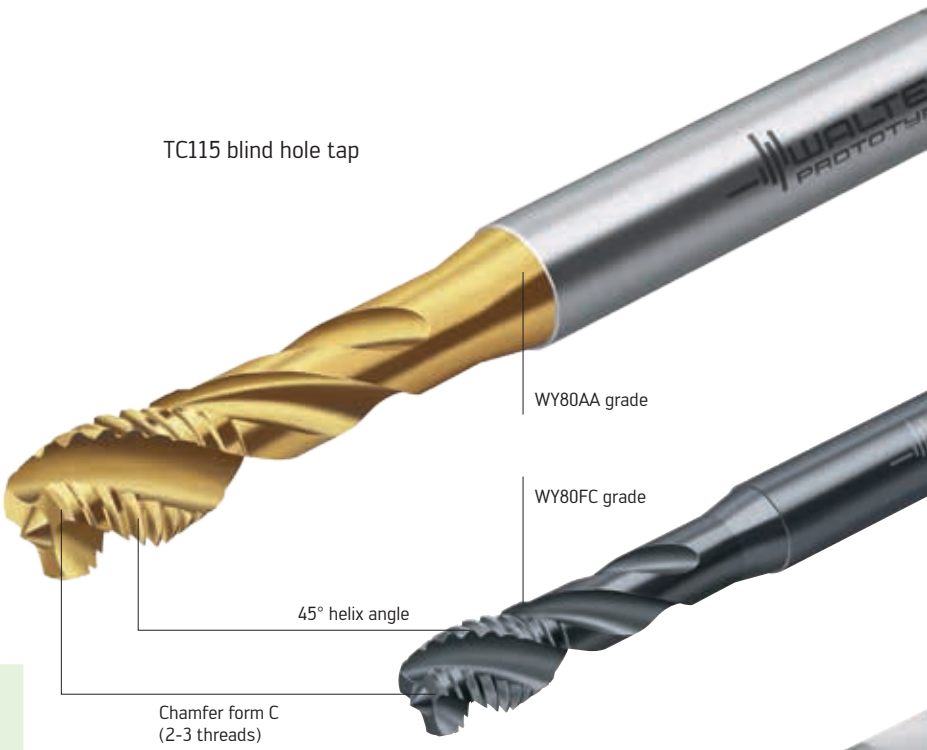
- Blind- and through-hole threads
- Dimension range: M3-M20
- **Primary application:**
  - ISO-P: 300-1000 N/mm²
  - ISO-M: < 800 N/mm²
  - ISO-K: GJS (GGG)
  - ISO-N: Aluminum wrought alloy, AlSi < 4% silicon*

  * Secondary application with TC115

THE ADVANTAGES

- TIN coating: Long tool life
- Vaporized: Excellent chip control minimizes weld formation
- Flexibility thanks to a wide range of uses in a variety of materials
- High process reliability
- Most cost effective solution for small to medium batches

TC115 blind hole tap



TC216 through-hole tap

Designation key for Walter Prototyp tapping tools

Example

T	C	1	15	–	M10	-	C	0	-	W	Y	80	AA
1	2	3	4	5	6		7	8		Grade			

1	2	3	4	5
Tool group	Generation	Tool type	Tool type	1. Delimiter
T Threading		1 Blind hole	15 Universal	– Metric
		2 Through hole	16 Universal	

6	7	8
Thread dimensions	Shank type	Variant
	C Reinforced shank	0 External cooling
	L Passing through shank	

Grade designation key for solid carbide and HSS cutting materials

Example

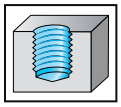
W	Y	80	AA
Walter	1	2	3

1	2	3
Substrate	Application range	Coating
Solid carbide	Wear resistance 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 Toughness	FC Vaporised
HSS Y		AA TiN

Watch the video:
Scan this QR code or go directly to
http://goo.gl/79eO5x

Machine tap
Perform TC115

≤3xD_N



- HSS-E
- Chamfer form C = 2 - 3 thread
- 45° helix angle
- Materials from 350 to 1000 N/mm² or 32 HRC
- For long-chipping materials

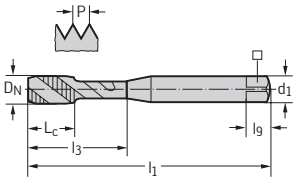
M

DIN 13

	P	M	K	N	S	H	O
WY80FC	●●	●●	●●	●			
WY80AA	●●	●●	●●	●			

Tool

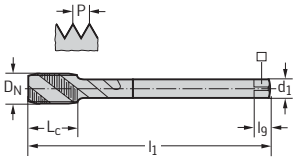
DIN 371 ISO2/6H



Designation	P mm	l_1 js16 mm	L_C mm	l_3 ±1 mm	d_1 h_9 mm	□ h12 mm	l_9 mm	N	WY80FC	WY80AA
TC115-M3-C0-	0.5	56	6	18	3.5	2.7	6	3	☻	☻
TC115-M4-C0-	0.7	63	7	21	4.5	3.4	6	3	☻	☻
TC115-M5-C0-	0.8	70	8	25	6	4.9	8	3	☻	☻
TC115-M6-C0-	1	80	10	30	6	4.9	8	3	☻	☻
TC115-M8-C0-	1.25	90	12	35	8	6.2	9	3	☻	☻
TC115-M10-C0-	1.5	100	15	39	10	8	11	3	☻	☻

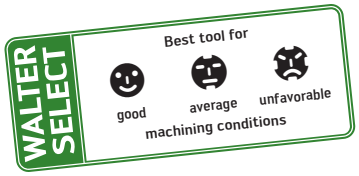
Tool

DIN 376 ISO2/6H



Designation	P mm	l_1 js16 mm	L_C mm	l_3 ±1 mm	d_1 h_9 mm	□ h12 mm	l_9 mm	N	WY80FC	WY80AA
TC115-M12-L0-	1.75	110	16	-	9	7	10	3	☻	☻
TC115-M14-L0-	2	110	20	-	11	9	12	3	☻	☻
TC115-M16-L0-	2	110	20	-	12	9	12	3	☻	☻
TC115-M20-L0-	2.5	140	25	-	16	12	15	4	☻	☻

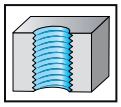
Ordering example: TC115 HSS-E machine tap in M10 in WY80AA grade
Ordering code: TC115-M10-C0-WY80AA



☻☻☻ New addition to the product range

Machine tap
Perform TC216

≤3.5xD_N



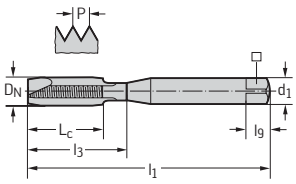
- HSS-E
- Chamfer form B = 3.5 - 5 thread
- Materials from 350 to 1000 N/mm² or 32 HRC
- For long-chipping materials

M

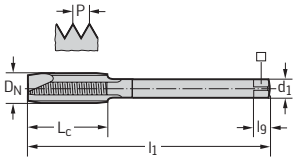
DIN 13

	P	M	K	N	S	H	O
WY80FC	●●	●●	●●	●●			
WY80AA	●●	●●	●●	●●			

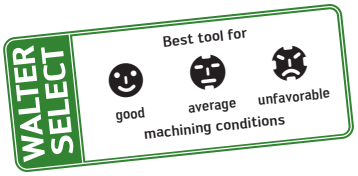
Tool	Designation	P mm	l_1 js16 mm	L_C mm	l_3 ±1 mm	d_1 h_9 mm	□ h12 mm	l_g mm	N	WY80FC	WY80AA
DIN 371 ISO2/6H	TC216-M3-C0-	0.5	56	9	18	3.5	2.7	6	3	☺	☺
	TC216-M4-C0-	0.7	63	12	21	4.5	3.4	6	3	☺	☺
	TC216-M5-C0-	0.8	70	13	25	6	4.9	8	3	☺	☺
	TC216-M6-C0-	1	80	15	30	6	4.9	8	3	☺	☺
	TC216-M8-C0-	1.25	90	18	35	8	6.2	9	3	☺	☺
	TC216-M10-C0-	1.5	100	20	39	10	8	11	3	☺	☺



Tool	Designation	P mm	l_1 js16 mm	L_C mm	l_3 ±1 mm	d_1 h_9 mm	□ h12 mm	l_g mm	N	WY80FC	WY80AA
DIN 376 ISO2/6H	TC216-M12-L0-	1.75	110	23	-	9	7	10	3	☺	☺
	TC216-M14-L0-	2	110	25	-	11	9	12	3	☺	☺
	TC216-M16-L0-	2	110	25	-	12	9	12	3	☺	☺
	TC216-M20-L0-	2.5	140	30	-	16	12	15	4	☺	☺



Ordering example: TC216 HSS-E machine tap in M10 in WY80AA grade
Ordering code: TC216-M10-C0-WY80AA



☺ ☺ ☹ New addition to the product range