

\_ MACHINING EXPERTISE.

# Perform line catalogue



# How to find and order your standard tools:



## Personal – worldwide

You can contact us by phone, fax or e-mail. The contact details for your local contact can be found on our website at: [walter-tools.com](http://walter-tools.com)



## The Walter General Catalogue 2017

contains the entire standard range of our competence brands Walter, Walter Titex and Walter Prototyp. It is supplemented regularly with the latest Product Innovations catalogue.

At [walter-tools.com](http://walter-tools.com), you can access and order your Walter products quickly and conveniently online – via smartphone, tablet or PC. The benefit for you: Direct access from any device, displayed in an optimised form, at any time.

### Walter online catalogue



#### Tool-specific search

You can find products in the Walter online catalogue using the familiar structure of our product catalogue as well as filter and search functions. Other features: A shopping function and links to drawings and models.

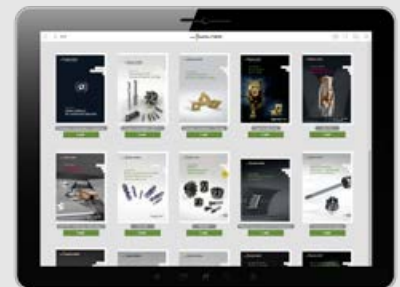
### Walter GPS



#### Application-based search

With Walter GPS, it takes just a few steps to find the optimum machining solution for your component, online and offline – and the solution can be transferred directly to the Walter TOOLSHOP if required.

### Walter eLibrary



#### Document-based search

The Walter eLibrary app provides you with all the information you need on your mobile devices within a matter of seconds: E.g. brochures and catalogues – online and offline, in 17 languages.

## Digital ordering methods



**TOOLSHOP**



**EDI B2B**

#### Walter TOOLSHOP & EDI

The Walter TOOLSHOP offers customers opportunities to find information and place orders quickly.

EDI (electronic data interchange) also makes it possible to exchange documents (e.g. orders) – even special tools can be ordered.

	Page
<b>Holemaking</b>	<b>6</b>
Solid carbide and HSS drilling and reaming tools	8
Solid carbide cutting data	38
HSS cutting data	40
Feed rate chart	41
<b>Threading</b>	<b>42</b>
HSS-E taps (metric, metric fine, UNC + UNF)	44
Cutting data	58
<b>Milling</b>	<b>60</b>
Solid carbide milling tools (metric, inch)	62
Cutting data	70
Feed determination	71

# The Walter Perform line – Benchmark for reliability and cost-efficiency.

Frequently, what users with a wide range of materials are most looking for is a tool that provides flexibility and cost-efficiency. The Perform line from Walter offers tailored solutions – developed specially for achieving high-quality results efficiently.



All Walter tools are distinguished by maximum precision and process reliability. You can create real added value by finding a product range which precisely meets all of your requirements. Walter has the right answer to what you're looking for – with three product lines in the premium segment: The Perform line for maximum cost-efficiency and reliability, the Advance line for cost-efficient machining, and the Supreme line for maximum performance with optimised cutting data and tool life.

## HOLEMAKING

### DA110 and DC150 Perform – 100% process reliability

Do you have to overcome specific challenges such as frequently changing materials and machining conditions? Then you need tools that are flexible to use and are optimised for a wide range of applications. The Walter DC150 and DA110 solid carbide and HSS drills in the Perform line are available in all common dimensions, reduce your tool stocks and provide a high level of machine flexibility thanks to their universal use. Proven Walter quality – at a reasonable price.

## THREADING

### Process reliability – with tailor-made cost-efficiency

Thread machining with the TC115 and TC216 taps from the Walter Perform line stands for reliability and cost-efficiency. This is because reliable processes and tools that can be used universally are the prerequisite for drilling threads efficiently. Depending on the material and workpiece, machining conditions may vary greatly. The TC115 and TC216 Perform taps meet this challenge – with tailored coatings and geometries.

## MILLING

### Can be used universally – in ISO P, M and K materials

The Walter MC232 Perform product range achieves high cost-efficiency with universal use and medium cutting data: The solid carbide milling cutters are suitable for a wide range of milling operations and materials. They impress with their long tool life and high level of wear resistance in a wide range of applications and diameters. The simple programme selection and low inventory costs make the milling cutters an excellent choice for almost all applications.



# Walter Titex DC150 Perform – flexible in use and very wear-resistant.

## THE APPLICATION

- ISO material groups P, M, K, N, S, H, O
- Can be used with emulsion, oil
- Areas of use: General mechanical engineering, mould and die making, energy and automotive industries

## THE TOOL

- Solid carbide twist drill
- Grades: WJ30RE and WJ30TA
- 140° point angle
- Dia. 1.5–20 mm

## THE DIMENSIONS

### With internal coolant:

- $3 \times D_c$ , in accordance with DIN 6537 short, with HA and HB/HE shank
- $5 \times D_c$ , in accordance with DIN 6537 long, with HA and HB/HE shank
- $8 \times D_c$ , in accordance with Walter standard, with HA shank
- $12 \times D_c$ , in accordance with Walter standard, with HA shank

### Without internal coolant:

- $3 \times D_c$ , in accordance with DIN 6539, with shank = cutting edge diameter
- $3 \times D_c$ , in accordance with DIN 6537 short, with HA and HB/HE shank
- $5 \times D_c$ , in accordance with DIN 6537 long, with HA shank



Walter Titex DC150 Perform

Fig.: DC150-08-08.500A1-WJ30TA

## BENEFITS FOR YOU

- Cost-efficient machining of small and medium batch sizes
- Can be used universally with various different materials
- Shank variants for all adaptors typically used in drilling, such as: Whistle notch chuck, hydro-expansion chuck, collet chuck, shrink-fit chuck, power chuck, Weldon chuck

# DA110 Perform HSS drill – cost-effective in all materials.

## THE APPLICATION

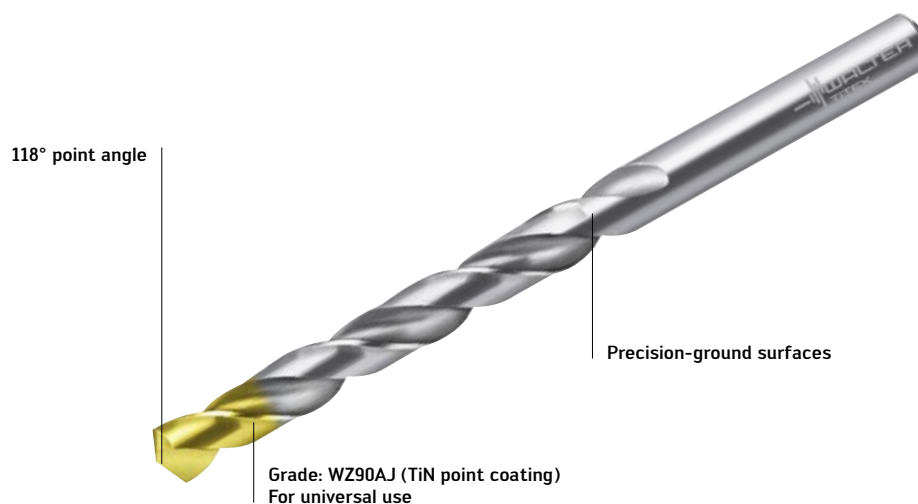
- ISO material groups P, M, K, N, S, H, O
- Can be used with emulsion, oil
- Areas of use: General mechanical engineering, mould and die making, energy and automotive industries

## THE TOOL

- HSS twist drills
- Type N
- Grade: WZ90AJ
- 118° point angle
- Dia. 1–16 mm

## THE DIMENSIONS

- In accordance with DIN 338
- 2 sets also available:
  - 1–10.5 mm diameter (DA110-SET-1-10.5-WZ90AJ)
  - 1–13 mm diameter (DA110-SET-1-13-WZ90AJ)



DA110 Perform HSS drill

Fig.: DA110-08-08.500U0-WZ90AJ

## BENEFITS FOR YOU

- Maximum accuracy on the component thanks to precision-ground surfaces
- Can be used universally with various different materials
- Tip geometry for optimum centring accuracy

## Product range overview of solid carbide drilling and reaming tools

### Solid carbide drills – with internal coolant      Without internal coolant

B 1

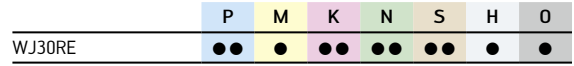
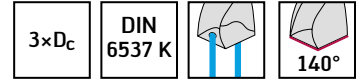
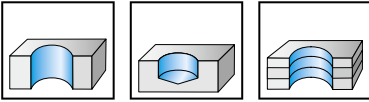
Machining					Machining			
Drilling depth	3 x D <sub>c</sub>	5 x D <sub>c</sub>	8 x D <sub>c</sub>	12 x D <sub>c</sub>	Drilling depth	3 x D <sub>c</sub>		5 x D <sub>c</sub>
Designation	DC150 Perform	DC150 Perform	DC150 Perform	DC150 Perform	Designation	DC150 Perform	DC150 Perform	DC150 Perform
Standard	DIN 6537 K	DIN 6537 L	Walter	Walter	Standard	DIN 6539	DIN 6537 K	DIN 6537 L
Dia. range [mm]	3–20	3–20	3–20	3–20	Dia. range [mm]	1,5–2,9	3–20	3–20
Page	9	13	19	22	Page	25	26	31

## Product range overview of HSS drilling and reaming tools

Machining		
Drilling depth	~8 x D <sub>c</sub>	Twist drill set
Designation	DA110 Perform	DA110 Perform
Standard	DIN 338	DIN 338
Dia. range [mm]	1–16	1–10,5 1–13
Page	34	37



# Solid carbide drills with coolant-through DC150 Perform



Designation	D <sub>c</sub>	D <sub>c</sub>	L <sub>c</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>5</sub>	d <sub>1</sub>	WJ30RE
	m7	Inch/no.	mm	mm	mm	mm	h6	
DC150-03-03.000A1-	3		14	62	20	36	6	●●●●●●●●
DC150-03-03.100A1-	3,1		14	62	20	36	6	●●●●●●●●
DC150-03-03.175A1-	3,175	1/8"	14	62	20	36	6	●●●●●●●●
DC150-03-03.200A1-	3,2		14	62	20	36	6	●●●●●●●●
DC150-03-03.250A1-	3,25		14	62	20	36	6	●●●●●●●●
DC150-03-03.300A1-	3,3		14	62	20	36	6	●●●●●●●●
DC150-03-03.400A1-	3,4		14	62	20	36	6	●●●●●●●●
DC150-03-03.500A1-	3,5		14	62	20	36	6	●●●●●●●●
DC150-03-03.572A1-	3,572	9/64"	14	62	20	36	6	●●●●●●●●
DC150-03-03.600A1-	3,6		14	62	20	36	6	●●●●●●●●
DC150-03-03.650A1-	3,65		14	62	20	36	6	●●●●●●●●
DC150-03-03.700A1-	3,7		14	62	20	36	6	●●●●●●●●
DC150-03-03.800A1-	3,8		17	66	24	36	6	●●●●●●●●
DC150-03-03.900A1-	3,9		17	66	24	36	6	●●●●●●●●
DC150-03-03.969A1-	3,969	5/32"	17	66	24	36	6	●●●●●●●●
DC150-03-04.000A1-	4		17	66	24	36	6	●●●●●●●●
DC150-03-04.100A1-	4,1		17	66	24	36	6	●●●●●●●●
DC150-03-04.200A1-	4,2		17	66	24	36	6	●●●●●●●●
DC150-03-04.300A1-	4,3		17	66	24	36	6	●●●●●●●●
DC150-03-04.366A1-	4,366	11/64"	17	66	24	36	6	●●●●●●●●
DC150-03-04.400A1-	4,4		17	66	24	36	6	●●●●●●●●
DC150-03-04.500A1-	4,5		17	66	24	36	6	●●●●●●●●
DC150-03-04.600A1-	4,6		17	66	24	36	6	●●●●●●●●
DC150-03-04.650A1-	4,65		17	66	24	36	6	●●●●●●●●
DC150-03-04.700A1-	4,7		17	66	24	36	6	●●●●●●●●
DC150-03-04.763A1-	4,763	3/16"	20	66	28	36	6	●●●●●●●●
DC150-03-04.800A1-	4,8		20	66	28	36	6	●●●●●●●●
DC150-03-04.900A1-	4,9		20	66	28	36	6	●●●●●●●●
DC150-03-05.000A1-	5		20	66	28	36	6	●●●●●●●●
DC150-03-05.100A1-	5,1		20	66	28	36	6	●●●●●●●●
DC150-03-05.159A1-	5,159	13/64"	20	66	28	36	6	●●●●●●●●
DC150-03-05.200A1-	5,2		20	66	28	36	6	●●●●●●●●
DC150-03-05.300A1-	5,3		20	66	28	36	6	●●●●●●●●
DC150-03-05.400A1-	5,4		20	66	28	36	6	●●●●●●●●
DC150-03-05.500A1-	5,5		20	66	28	36	6	●●●●●●●●
DC150-03-05.550A1-	5,55		20	66	28	36	6	●●●●●●●●
DC150-03-05.556A1-	5,556	7/32"	20	66	28	36	6	●●●●●●●●
DC150-03-05.600A1-	5,6		20	66	28	36	6	●●●●●●●●
DC150-03-05.700A1-	5,7		20	66	28	36	6	●●●●●●●●
DC150-03-05.800A1-	5,8		20	66	28	36	6	●●●●●●●●
DC150-03-05.900A1-	5,9		20	66	28	36	6	●●●●●●●●
DC150-03-05.953A1-	5,953	15/64"	20	66	28	36	6	●●●●●●●●
DC150-03-06.000A1-	6		20	66	28	36	6	●●●●●●●●
DC150-03-06.100A1-	6,1		24	79	34	36	8	●●●●●●●●
DC150-03-06.200A1-	6,2		24	79	34	36	8	●●●●●●●●
DC150-03-06.300A1-	6,3		24	79	34	36	8	●●●●●●●●
DC150-03-06.350A1-	6,35	1/4"	24	79	34	36	8	●●●●●●●●

Ordering example for the WJ30RE grade: DC150-03-03.000A1-WJ30RE

Continued

B 1

Continued

B 1

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE
	Shank DIN 6535 HA								
	DC150-03-06.400A1-	6,4		24	79	34	36	8	☺
	DC150-03-06.500A1-	6,5		24	79	34	36	8	☺
	DC150-03-06.600A1-	6,6		24	79	34	36	8	☺
	DC150-03-06.700A1-	6,7		24	79	34	36	8	☺
	DC150-03-06.747A1-	6,747	17/64"	24	79	34	36	8	☺
	DC150-03-06.800A1-	6,8		24	79	34	36	8	☺
	DC150-03-06.900A1-	6,9		24	79	34	36	8	☺
	DC150-03-07.000A1-	7		24	79	34	36	8	☺
	DC150-03-07.100A1-	7,1		29	79	41	36	8	☺
	DC150-03-07.144A1-	7,144	9/32"	29	79	41	36	8	☺
	DC150-03-07.200A1-	7,2		29	79	41	36	8	☺
	DC150-03-07.300A1-	7,3		29	79	41	36	8	☺
	DC150-03-07.400A1-	7,4		29	79	41	36	8	☺
	DC150-03-07.500A1-	7,5		29	79	41	36	8	☺
	DC150-03-07.541A1-	7,541	19/64"	29	79	41	36	8	☺
	DC150-03-07.600A1-	7,6		29	79	41	36	8	☺
	DC150-03-07.700A1-	7,7		29	79	41	36	8	☺
	DC150-03-07.800A1-	7,8		29	79	41	36	8	☺
	DC150-03-07.900A1-	7,9		29	79	41	36	8	☺
	DC150-03-07.938A1-	7,938	5/16"	29	79	41	36	8	☺
	DC150-03-08.000A1-	8		29	79	41	36	8	☺
	DC150-03-08.100A1-	8,1		35	89	47	40	10	☺
	DC150-03-08.200A1-	8,2		35	89	47	40	10	☺
	DC150-03-08.300A1-	8,3		35	89	47	40	10	☺
	DC150-03-08.334A1-	8,334	21/64"	35	89	47	40	10	☺
	DC150-03-08.400A1-	8,4		35	89	47	40	10	☺
	DC150-03-08.500A1-	8,5		35	89	47	40	10	☺
	DC150-03-08.600A1-	8,6		35	89	47	40	10	☺
	DC150-03-08.700A1-	8,7		35	89	47	40	10	☺
	DC150-03-08.731A1-	8,731	11/32"	35	89	47	40	10	☺
	DC150-03-08.800A1-	8,8		35	89	47	40	10	☺
	DC150-03-08.900A1-	8,9		35	89	47	40	10	☺
	DC150-03-09.000A1-	9		35	89	47	40	10	☺
	DC150-03-09.100A1-	9,1		35	89	47	40	10	☺
	DC150-03-09.128A1-	9,128	23/64"	35	89	47	40	10	☺
	DC150-03-09.200A1-	9,2		35	89	47	40	10	☺
	DC150-03-09.300A1-	9,3		35	89	47	40	10	☺
	DC150-03-09.400A1-	9,4		35	89	47	40	10	☺
	DC150-03-09.500A1-	9,5		35	89	47	40	10	☺
DC150-03-09.525A1-	9,525	3/8"	35	89	47	40	10	☺	
DC150-03-09.600A1-	9,6		35	89	47	40	10	☺	
DC150-03-09.700A1-	9,7		35	89	47	40	10	☺	
DC150-03-09.800A1-	9,8		35	89	47	40	10	☺	
DC150-03-09.900A1-	9,9		35	89	47	40	10	☺	
DC150-03-09.922A1-	9,922	25/64"	35	89	47	40	10	☺	
DC150-03-10.000A1-	10		35	89	47	40	10	☺	
DC150-03-10.100A1-	10,1		40	102	55	45	12	☺	
DC150-03-10.200A1-	10,2		40	102	55	45	12	☺	
DC150-03-10.300A1-	10,3		40	102	55	45	12	☺	
DC150-03-10.319A1-	10,319	13/32"	40	102	55	45	12	☺	
DC150-03-10.400A1-	10,4		40	102	55	45	12	☺	
DC150-03-10.500A1-	10,5		40	102	55	45	12	☺	
DC150-03-10.600A1-	10,6		40	102	55	45	12	☺	
DC150-03-10.700A1-	10,7		40	102	55	45	12	☺	
DC150-03-10.716A1-	10,716	27/64"	40	102	55	45	12	☺	
DC150-03-10.800A1-	10,8		40	102	55	45	12	☺	
DC150-03-10.900A1-	10,9		40	102	55	45	12	☺	

Ordering example for the WJ30RE grade: DC150-03-03.000A1-WJ30RE

Continued

Continued

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE	
	Shank DIN 6535 HA	DC150-03-11.000A1-		40	102	55	45	12	☺	
		DC150-03-11.100A1-		40	102	55	45	12	☺	
		DC150-03-11.113A1-	11,113	7/16"	40	102	55	45	12	☺
		DC150-03-11.200A1-	11,2		40	102	55	45	12	☺
		DC150-03-11.300A1-	11,3		40	102	55	45	12	☺
		DC150-03-11.400A1-	11,4		40	102	55	45	12	☺
		DC150-03-11.500A1-	11,5		40	102	55	45	12	☺
		DC150-03-11.509A1-	11,509	29/64"	40	102	55	45	12	☺
		DC150-03-11.600A1-	11,6		40	102	55	45	12	☺
		DC150-03-11.700A1-	11,7		40	102	55	45	12	☺
		DC150-03-11.800A1-	11,8		40	102	55	45	12	☺
		DC150-03-11.900A1-	11,9		40	102	55	45	12	☺
		DC150-03-11.906A1-	11,906	15/32"	40	102	55	45	12	☺
		DC150-03-12.000A1-	12		40	102	55	45	12	☺
		DC150-03-12.100A1-	12,1		43	107	60	45	14	☺
		DC150-03-12.200A1-	12,2		43	107	60	45	14	☺
		DC150-03-12.300A1-	12,3		43	107	60	45	14	☺
		DC150-03-12.303A1-	12,303	31/64"	43	107	60	45	14	☺
		DC150-03-12.500A1-	12,5		43	107	60	45	14	☺
		DC150-03-12.600A1-	12,6		43	107	60	45	14	☺
	DC150-03-12.700A1-	12,7	1/2"	43	107	60	45	14	☺	
	DC150-03-12.800A1-	12,8		43	107	60	45	14	☺	
	DC150-03-12.900A1-	12,9		43	107	60	45	14	☺	
	DC150-03-13.000A1-	13		43	107	60	45	14	☺	
	DC150-03-13.100A1-	13,1		43	107	60	45	14	☺	
	DC150-03-13.200A1-	13,2		43	107	60	45	14	☺	
	DC150-03-13.300A1-	13,3		43	107	60	45	14	☺	
	DC150-03-13.494A1-	13,494	17/32"	43	107	60	45	14	☺	
	DC150-03-13.500A1-	13,5		43	107	60	45	14	☺	
	DC150-03-13.800A1-	13,8		43	107	60	45	14	☺	
	DC150-03-14.000A1-	14		43	107	60	45	14	☺	
	DC150-03-14.100A1-	14,1		45	115	65	48	16	☺	
	DC150-03-14.200A1-	14,2		45	115	65	48	16	☺	
	DC150-03-14.288A1-	14,288	9/16"	45	115	65	48	16	☺	
	DC150-03-14.500A1-	14,5		45	115	65	48	16	☺	
	DC150-03-14.600A1-	14,6		45	115	65	48	16	☺	
	DC150-03-14.700A1-	14,7		45	115	65	48	16	☺	
	DC150-03-15.000A1-	15		45	115	65	48	16	☺	
	DC150-03-15.100A1-	15,1		45	115	65	48	16	☺	
	DC150-03-15.300A1-	15,3		45	115	65	48	16	☺	
	DC150-03-15.500A1-	15,5		45	115	65	48	16	☺	
	DC150-03-15.700A1-	15,7		45	115	65	48	16	☺	
	DC150-03-15.800A1-	15,8		45	115	65	48	16	☺	
	DC150-03-15.875A1-	15,875	5/8"	45	115	65	48	16	☺	
	DC150-03-16.000A1-	16		45	115	65	48	16	☺	
	DC150-03-16.300A1-	16,3		51	123	73	48	18	☺	
	DC150-03-16.500A1-	16,5		51	123	73	48	18	☺	
	DC150-03-16.700A1-	16,7		51	123	73	48	18	☺	
	DC150-03-17.000A1-	17		51	123	73	48	18	☺	
	DC150-03-17.500A1-	17,5		51	123	73	48	18	☺	
	DC150-03-18.000A1-	18		51	123	73	48	18	☺	
	DC150-03-18.500A1-	18,5		55	131	79	50	20	☺	
	DC150-03-19.000A1-	19		55	131	79	50	20	☺	
	DC150-03-19.050A1-	19,05	3/4"	55	131	79	50	20	☺	
	DC150-03-20.000A1-	20		55	131	79	50	20	☺	

Ordering example for the WJ30RE grade: DC150-03-03.000A1-WJ30RE

Continued

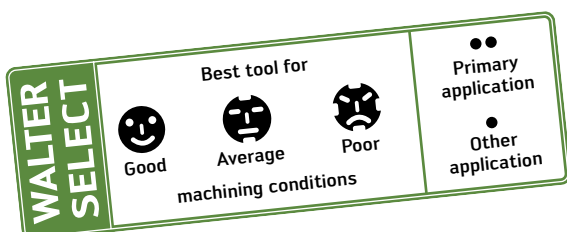
B 1

Continued

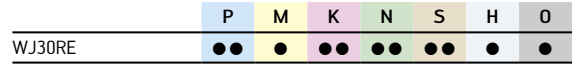
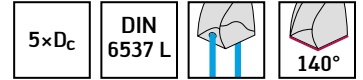
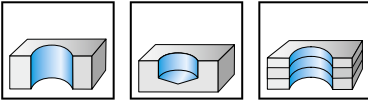
B 1

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB  	DC150-03-03.000D1-	3		14	62	20	36	6	☺
	DC150-03-03.300D1-	3,3		14	62	20	36	6	☺
	DC150-03-03.400D1-	3,4		14	62	20	36	6	☺
	DC150-03-03.500D1-	3,5		14	62	20	36	6	☺
	DC150-03-03.700D1-	3,7		14	62	20	36	6	☺
	DC150-03-03.800D1-	3,8		17	66	24	36	6	☺
	DC150-03-04.000D1-	4		17	66	24	36	6	☺
	DC150-03-04.200D1-	4,2		17	66	24	36	6	☺
	DC150-03-04.300D1-	4,3		17	66	24	36	6	☺
	DC150-03-04.500D1-	4,5		17	66	24	36	6	☺
	DC150-03-04.800D1-	4,8		20	66	28	36	6	☺
	DC150-03-05.000D1-	5		20	66	28	36	6	☺
	DC150-03-05.100D1-	5,1		20	66	28	36	6	☺
	DC150-03-05.300D1-	5,3		20	66	28	36	6	☺
	DC150-03-05.500D1-	5,5		20	66	28	36	6	☺
	DC150-03-06.000D1-	6		20	66	28	36	6	☺
	DC150-03-06.500D1-	6,5		24	79	34	36	8	☺
	DC150-03-06.700D1-	6,7		24	79	34	36	8	☺
	DC150-03-06.800D1-	6,8		24	79	34	36	8	☺
	DC150-03-07.000D1-	7		24	79	34	36	8	☺
DC150-03-07.500D1-	7,5		29	79	41	36	8	☺	
DC150-03-07.800D1-	7,8		29	79	41	36	8	☺	
DC150-03-08.000D1-	8		29	79	41	36	8	☺	
DC150-03-08.500D1-	8,5		35	89	47	40	10	☺	
DC150-03-08.600D1-	8,6		35	89	47	40	10	☺	
DC150-03-08.800D1-	8,8		35	89	47	40	10	☺	
DC150-03-09.000D1-	9		35	89	47	40	10	☺	
DC150-03-10.000D1-	10		35	89	47	40	10	☺	
DC150-03-10.200D1-	10,2		40	102	55	45	12	☺	
DC150-03-10.300D1-	10,3		40	102	55	45	12	☺	
DC150-03-10.500D1-	10,5		40	102	55	45	12	☺	
DC150-03-10.800D1-	10,8		40	102	55	45	12	☺	
DC150-03-11.000D1-	11		40	102	55	45	12	☺	
DC150-03-11.800D1-	11,8		40	102	55	45	12	☺	
DC150-03-12.000D1-	12		40	102	55	45	12	☺	
DC150-03-12.200D1-	12,2		43	107	60	45	14	☺	
DC150-03-12.500D1-	12,5		43	107	60	45	14	☺	
DC150-03-13.000D1-	13		43	107	60	45	14	☺	
DC150-03-14.000D1-	14		43	107	60	45	14	☺	
DC150-03-15.000D1-	15		45	115	65	48	16	☺	
DC150-03-15.500D1-	15,5		45	115	65	48	16	☺	
DC150-03-16.000D1-	16		45	115	65	48	16	☺	
DC150-03-16.500D1-	16,5		51	123	73	48	18	☺	
DC150-03-17.000D1-	17		51	123	73	48	18	☺	
DC150-03-17.500D1-	17,5		51	123	73	48	18	☺	
DC150-03-18.000D1-	18		51	123	73	48	18	☺	
DC150-03-19.000D1-	19		55	131	79	50	20	☺	
DC150-03-20.000D1-	20		55	131	79	50	20	☺	

Ordering example for the WJ30RE grade: DC150-03-03.000A1-WJ30RE



# Solid carbide drills with coolant-through DC150 Perform



Designation	D <sub>c</sub>	D <sub>c</sub>	L <sub>c</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>5</sub>	d <sub>1</sub>	WJ30RE
	m7	Inch/no.	mm	mm	mm	mm	h6	
DC150-05-03.000A1-	3		23	66	28	36	6	●●●●●●●●
DC150-05-03.100A1-	3,1		23	66	28	36	6	●●●●●●●●
DC150-05-03.175A1-	3,175	1/8"	23	66	28	36	6	●●●●●●●●
DC150-05-03.200A1-	3,2		23	66	28	36	6	●●●●●●●●
DC150-05-03.250A1-	3,25		23	66	28	36	6	●●●●●●●●
DC150-05-03.300A1-	3,3		23	66	28	36	6	●●●●●●●●
DC150-05-03.400A1-	3,4		23	66	28	36	6	●●●●●●●●
DC150-05-03.500A1-	3,5		23	66	28	36	6	●●●●●●●●
DC150-05-03.572A1-	3,572	9/64"	23	66	28	36	6	●●●●●●●●
DC150-05-03.600A1-	3,6		23	66	28	36	6	●●●●●●●●
DC150-05-03.650A1-	3,65		23	66	28	36	6	●●●●●●●●
DC150-05-03.700A1-	3,7		23	66	28	36	6	●●●●●●●●
DC150-05-03.800A1-	3,8		29	74	36	36	6	●●●●●●●●
DC150-05-03.900A1-	3,9		29	74	36	36	6	●●●●●●●●
DC150-05-03.969A1-	3,969	5/32"	29	74	36	36	6	●●●●●●●●
DC150-05-04.000A1-	4		29	74	36	36	6	●●●●●●●●
DC150-05-04.100A1-	4,1		29	74	36	36	6	●●●●●●●●
DC150-05-04.200A1-	4,2		29	74	36	36	6	●●●●●●●●
DC150-05-04.300A1-	4,3		29	74	36	36	6	●●●●●●●●
DC150-05-04.366A1-	4,366	11/64"	29	74	36	36	6	●●●●●●●●
DC150-05-04.400A1-	4,4		29	74	36	36	6	●●●●●●●●
DC150-05-04.500A1-	4,5		29	74	36	36	6	●●●●●●●●
DC150-05-04.600A1-	4,6		29	74	36	36	6	●●●●●●●●
DC150-05-04.650A1-	4,65		29	74	36	36	6	●●●●●●●●
DC150-05-04.700A1-	4,7		29	74	36	36	6	●●●●●●●●
DC150-05-04.763A1-	4,763	3/16"	35	82	44	36	6	●●●●●●●●
DC150-05-04.800A1-	4,8		35	82	44	36	6	●●●●●●●●
DC150-05-04.900A1-	4,9		35	82	44	36	6	●●●●●●●●
DC150-05-05.000A1-	5		35	82	44	36	6	●●●●●●●●
DC150-05-05.100A1-	5,1		35	82	44	36	6	●●●●●●●●
DC150-05-05.159A1-	5,159	13/64"	35	82	44	36	6	●●●●●●●●
DC150-05-05.200A1-	5,2		35	82	44	36	6	●●●●●●●●
DC150-05-05.300A1-	5,3		35	82	44	36	6	●●●●●●●●
DC150-05-05.400A1-	5,4		35	82	44	36	6	●●●●●●●●
DC150-05-05.500A1-	5,5		35	82	44	36	6	●●●●●●●●
DC150-05-05.550A1-	5,55		35	82	44	36	6	●●●●●●●●
DC150-05-05.556A1-	5,556	7/32"	35	82	44	36	6	●●●●●●●●
DC150-05-05.600A1-	5,6		35	82	44	36	6	●●●●●●●●
DC150-05-05.700A1-	5,7		35	82	44	36	6	●●●●●●●●
DC150-05-05.800A1-	5,8		35	82	44	36	6	●●●●●●●●
DC150-05-05.900A1-	5,9		35	82	44	36	6	●●●●●●●●
DC150-05-05.953A1-	5,953	15/64"	35	82	44	36	6	●●●●●●●●
DC150-05-06.000A1-	6		35	82	44	36	6	●●●●●●●●
DC150-05-06.100A1-	6,1		43	91	53	36	8	●●●●●●●●
DC150-05-06.200A1-	6,2		43	91	53	36	8	●●●●●●●●
DC150-05-06.300A1-	6,3		43	91	53	36	8	●●●●●●●●
DC150-05-06.350A1-	6,35	1/4"	43	91	53	36	8	●●●●●●●●

Ordering example for the WJ30RE grade: DC150-05-03.000A1-WJ30RE

Continued

B 1

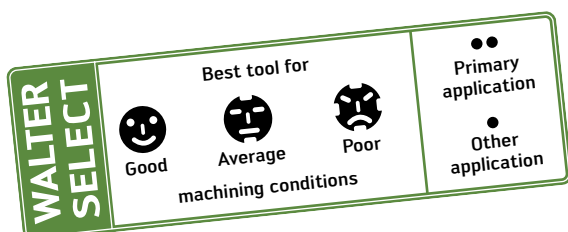
Continued

B 1

Designation	D <sub>c</sub> mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE
Shank DIN 6535 HA								
DC150-05-06.400A1-	6,4		43	91	53	36	8	☺
DC150-05-06.500A1-	6,5		43	91	53	36	8	☺
DC150-05-06.600A1-	6,6		43	91	53	36	8	☺
DC150-05-06.700A1-	6,7		43	91	53	36	8	☺
DC150-05-06.747A1-	6,747	17/64"	43	91	53	36	8	☺
DC150-05-06.800A1-	6,8		43	91	53	36	8	☺
DC150-05-06.900A1-	6,9		43	91	53	36	8	☺
DC150-05-07.000A1-	7		43	91	53	36	8	☺
DC150-05-07.100A1-	7,1		43	91	53	36	8	☺
DC150-05-07.144A1-	7,144	9/32"	43	91	53	36	8	☺
DC150-05-07.200A1-	7,2		43	91	53	36	8	☺
DC150-05-07.300A1-	7,3		43	91	53	36	8	☺
DC150-05-07.400A1-	7,4		43	91	53	36	8	☺
DC150-05-07.500A1-	7,5		43	91	53	36	8	☺
DC150-05-07.541A1-	7,541	19/64"	43	91	53	36	8	☺
DC150-05-07.550A1-	7,55		43	91	53	36	8	☺
DC150-05-07.600A1-	7,6		43	91	53	36	8	☺
DC150-05-07.700A1-	7,7		43	91	53	36	8	☺
DC150-05-07.800A1-	7,8		43	91	53	36	8	☺
DC150-05-07.900A1-	7,9		43	91	53	36	8	☺
DC150-05-07.938A1-	7,938	5/16"	43	91	53	36	8	☺
DC150-05-08.000A1-	8		43	91	53	36	8	☺
DC150-05-08.100A1-	8,1		49	103	61	40	10	☺
DC150-05-08.200A1-	8,2		49	103	61	40	10	☺
DC150-05-08.300A1-	8,3		49	103	61	40	10	☺
DC150-05-08.334A1-	8,334	21/64"	49	103	61	40	10	☺
DC150-05-08.400A1-	8,4		49	103	61	40	10	☺
DC150-05-08.500A1-	8,5		49	103	61	40	10	☺
DC150-05-08.600A1-	8,6		49	103	61	40	10	☺
DC150-05-08.700A1-	8,7		49	103	61	40	10	☺
DC150-05-08.731A1-	8,731	11/32"	49	103	61	40	10	☺
DC150-05-08.800A1-	8,8		49	103	61	40	10	☺
DC150-05-08.900A1-	8,9		49	103	61	40	10	☺
DC150-05-09.000A1-	9		49	103	61	40	10	☺
DC150-05-09.100A1-	9,1		49	103	61	40	10	☺
DC150-05-09.128A1-	9,128	23/64"	49	103	61	40	10	☺
DC150-05-09.200A1-	9,2		49	103	61	40	10	☺
DC150-05-09.300A1-	9,3		49	103	61	40	10	☺
DC150-05-09.400A1-	9,4		49	103	61	40	10	☺
DC150-05-09.500A1-	9,4		49	103	61	40	10	☺
DC150-05-09.525A1-	9,525	3/8"	49	103	61	40	10	☺
DC150-05-09.550A1-	9,55		49	103	61	40	10	☺
DC150-05-09.600A1-	9,6		49	103	61	40	10	☺
DC150-05-09.700A1-	9,7		49	103	61	40	10	☺
DC150-05-09.800A1-	9,8		49	103	61	40	10	☺
DC150-05-09.900A1-	9,9		49	103	61	40	10	☺
DC150-05-09.922A1-	9,922	25/64"	49	103	61	40	10	☺
DC150-05-10.000A1-	10		49	103	61	40	10	☺
DC150-05-10.100A1-	10,1		56	118	71	45	12	☺
DC150-05-10.200A1-	10,2		56	118	71	45	12	☺
DC150-05-10.300A1-	10,3		56	118	71	45	12	☺
DC150-05-10.319A1-	10,319	13/32"	56	118	71	45	12	☺
DC150-05-10.400A1-	10,4		56	118	71	45	12	☺
DC150-05-10.500A1-	10,5		56	118	71	45	12	☺
DC150-05-10.600A1-	10,6		56	118	71	45	12	☺
DC150-05-10.700A1-	10,7		56	118	71	45	12	☺
DC150-05-10.716A1-	10,716	27/64"	56	118	71	45	12	☺

Ordering example for the WJ30RE grade: DC150-05-03.000A1-WJ30RE

Continued



Continued

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE	
	Shank DIN 6535 HA	DC150-05-10.800A1-		56	118	71	45	12	☺	
		DC150-05-10.900A1-		56	118	71	45	12	☺	
		DC150-05-11.000A1-		56	118	71	45	12	☺	
		DC150-05-11.100A1-		56	118	71	45	12	☺	
		DC150-05-11.113A1-	11,113	7/16"	56	118	71	45	12	☺
		DC150-05-11.200A1-	11,2		56	118	71	45	12	☺
		DC150-05-11.300A1-	11,3		56	118	71	45	12	☺
		DC150-05-11.400A1-	11,4		56	118	71	45	12	☺
		DC150-05-11.500A1-	11,5		56	118	71	45	12	☺
		DC150-05-11.509A1-	11,509	29/64"	56	118	71	45	12	☺
		DC150-05-11.600A1-	11,6		56	118	71	45	12	☺
		DC150-05-11.700A1-	11,7		56	118	71	45	12	☺
		DC150-05-11.800A1-	11,8		56	118	71	45	12	☺
		DC150-05-11.900A1-	11,9		56	118	71	45	12	☺
		DC150-05-11.906A1-	11,906	15/32"	56	118	71	45	12	☺
		DC150-05-12.000A1-	12		56	118	71	45	12	☺
		DC150-05-12.100A1-	12,1		60	124	77	45	14	☺
		DC150-05-12.200A1-	12,2		60	124	77	45	14	☺
		DC150-05-12.250A1-	12,25		60	124	77	45	14	☺
		DC150-05-12.300A1-	12,3		60	124	77	45	14	☺
		DC150-05-12.303A1-	12,303	31/64"	60	124	77	45	14	☺
		DC150-05-12.400A1-	12,4		60	124	77	45	14	☺
		DC150-05-12.500A1-	12,5		60	124	77	45	14	☺
		DC150-05-12.600A1-	12,6		60	124	77	45	14	☺
		DC150-05-12.700A1-	12,7	1/2"	60	124	77	45	14	☺
		DC150-05-12.800A1-	12,8		60	124	77	45	14	☺
		DC150-05-12.900A1-	12,9		60	124	77	45	14	☺
		DC150-05-13.000A1-	13		60	124	77	45	14	☺
		DC150-05-13.100A1-	13,1		60	124	77	45	14	☺
		DC150-05-13.200A1-	13,2		60	124	77	45	14	☺
		DC150-05-13.300A1-	13,3		60	124	77	45	14	☺
		DC150-05-13.400A1-	13,4		60	124	77	45	14	☺
		DC150-05-13.494A1-	13,494	17/32"	60	124	77	45	14	☺
		DC150-05-13.500A1-	13,5		60	124	77	45	14	☺
	DC150-05-13.600A1-	13,6		60	124	77	45	14	☺	
	DC150-05-13.700A1-	13,7		60	124	77	45	14	☺	
	DC150-05-13.800A1-	13,8		60	124	77	45	14	☺	
	DC150-05-13.900A1-	13,9		60	124	77	45	14	☺	
	DC150-05-14.000A1-	14		60	124	77	45	14	☺	
	DC150-05-14.100A1-	14,1		63	133	83	48	16	☺	
	DC150-05-14.200A1-	14,2		63	133	83	48	16	☺	
	DC150-05-14.288A1-	14,288	9/16"	63	133	83	48	16	☺	
	DC150-05-14.300A1-	14,3		63	133	83	48	16	☺	
	DC150-05-14.500A1-	14,5		63	133	83	48	16	☺	
	DC150-05-14.600A1-	14,6		63	133	83	48	16	☺	
	DC150-05-14.700A1-	14,7		63	133	83	48	16	☺	
	DC150-05-14.750A1-	14,75		63	133	83	48	16	☺	
	DC150-05-14.800A1-	14,8		63	133	83	48	16	☺	
	DC150-05-15.000A1-	15		63	133	83	48	16	☺	
	DC150-05-15.100A1-	15,1		63	133	83	48	16	☺	
	DC150-05-15.200A1-	15,2		63	133	83	48	16	☺	
	DC150-05-15.300A1-	15,3		63	133	83	48	16	☺	
	DC150-05-15.500A1-	15,5		63	133	83	48	16	☺	
	DC150-05-15.600A1-	15,6		63	133	83	48	16	☺	
	DC150-05-15.700A1-	15,7		63	133	83	48	16	☺	
	DC150-05-15.800A1-	15,8		63	133	83	48	16	☺	
	DC150-05-15.875A1-	15,875	5/8"	63	133	83	48	16	☺	
	DC150-05-16.000A1-	16		63	133	83	48	16	☺	
	DC150-05-16.100A1-	16,1		71	143	93	48	18	☺	
	DC150-05-16.200A1-	16,2		71	143	93	48	18	☺	
	DC150-05-16.300A1-	16,3		71	143	93	48	18	☺	

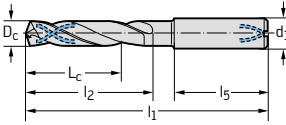
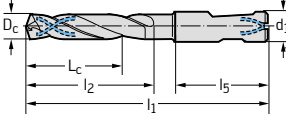
Ordering example for the WJ30RE grade: DC150-05-03.000A1-WJ30RE

Continued

B 1

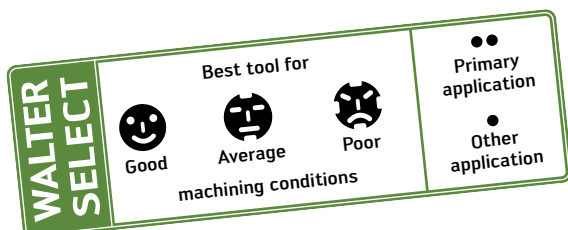
Continued

B 1

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE
Shank DIN 6535 HA 	DC150-05-16.500A1-	16,5		71	143	93	48	18	
	DC150-05-16.700A1-	16,7		71	143	93	48	18	
	DC150-05-16.750A1-	16,75		71	143	93	48	18	
	DC150-05-17.000A1-	17		71	143	93	48	18	
	DC150-05-17.100A1-	17,1		71	143	93	48	18	
	DC150-05-17.200A1-	17,2		71	143	93	48	18	
	DC150-05-17.300A1-	17,3		71	143	93	48	18	
	DC150-05-17.500A1-	17,5		71	143	93	48	18	
	DC150-05-17.600A1-	17,6		71	143	93	48	18	
	DC150-05-17.700A1-	17,7		71	143	93	48	18	
	DC150-05-17.800A1-	17,8		71	143	93	48	18	
	DC150-05-17.900A1-	17,9		71	143	93	48	18	
	DC150-05-18.000A1-	18		71	143	93	48	18	
	DC150-05-18.500A1-	18,5		77	153	101	50	20	
	DC150-05-18.900A1-	18,9		77	153	101	50	20	
	DC150-05-19.000A1-	19		77	153	101	50	20	
	DC150-05-19.050A1-	19,05	3/4"	77	153	101	50	20	
	DC150-05-19.300A1-	19,3		77	153	101	50	20	
	DC150-05-19.500A1-	19,5		77	153	101	50	20	
	DC150-05-19.700A1-	19,7		77	153	101	50	20	
DC150-05-19.800A1-	19,8		77	153	101	50	20		
DC150-05-20.000A1-	20		77	153	101	50	20		
DIN 6535 HE, turned 180° DIN 6535 HB 	DC150-05-03.000D1-	3		23	66	28	36	6	
	DC150-05-03.100D1-	3,1		23	66	28	36	6	
	DC150-05-03.200D1-	3,2		23	66	28	36	6	
	DC150-05-03.300D1-	3,3		23	66	28	36	6	
	DC150-05-03.400D1-	3,4		23	66	28	36	6	
	DC150-05-03.500D1-	3,5		23	66	28	36	6	
	DC150-05-03.600D1-	3,6		23	66	28	36	6	
	DC150-05-03.700D1-	3,7		23	66	28	36	6	
	DC150-05-03.800D1-	3,8		29	74	36	36	6	
	DC150-05-03.900D1-	3,9		29	74	36	36	6	
	DC150-05-04.000D1-	4		29	74	36	36	6	
	DC150-05-04.100D1-	4,1		29	74	36	36	6	
	DC150-05-04.200D1-	4,2		29	74	36	36	6	
	DC150-05-04.300D1-	4,3		29	74	36	36	6	
	DC150-05-04.400D1-	4,4		29	74	36	36	6	
	DC150-05-04.500D1-	4,5		29	74	36	36	6	
	DC150-05-04.600D1-	4,6		29	74	36	36	6	
	DC150-05-04.650D1-	4,65		29	74	36	36	6	
	DC150-05-04.700D1-	4,7		29	74	36	36	6	
	DC150-05-04.800D1-	4,8		35	82	44	36	6	
	DC150-05-04.900D1-	4,9		35	82	44	36	6	
	DC150-05-05.000D1-	5		35	82	44	36	6	
	DC150-05-05.100D1-	5,1		35	82	44	36	6	
	DC150-05-05.200D1-	5,2		35	82	44	36	6	
	DC150-05-05.300D1-	5,3		35	82	44	36	6	
	DC150-05-05.400D1-	5,4		35	82	44	36	6	
	DC150-05-05.500D1-	5,5		35	82	44	36	6	
	DC150-05-05.550D1-	5,55		35	82	44	36	6	
	DC150-05-05.600D1-	5,6		35	82	44	36	6	
	DC150-05-05.700D1-	5,7		35	82	44	36	6	
	DC150-05-05.800D1-	5,8		35	82	44	36	6	
	DC150-05-05.900D1-	5,9		35	82	44	36	6	
DC150-05-06.000D1-	6		35	82	44	36	6		
DC150-05-06.100D1-	6,1		43	91	53	36	8		
DC150-05-06.200D1-	6,2		43	91	53	36	8		

Ordering example for the WJ30RE grade: DC150-05-03.000A1-WJ30RE

Continued





Continued

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB	DC150-05-06.300D1-	6,2		43	91	53	36	8	☺☺
	DC150-05-06.400D1-	6,4		43	91	53	36	8	☺☺
	DC150-05-06.500D1-	6,5		43	91	53	36	8	☺☺
	DC150-05-06.600D1-	6,6		43	91	53	36	8	☺☺
	DC150-05-06.700D1-	6,7		43	91	53	36	8	☺☺
	DC150-05-06.800D1-	6,8		43	91	53	36	8	☺☺
	DC150-05-06.900D1-	6,9		43	91	53	36	8	☺☺
	DC150-05-07.000D1-	7		43	91	53	36	8	☺☺
	DC150-05-07.100D1-	7,1		43	91	53	36	8	☺☺
	DC150-05-07.200D1-	7,2		43	91	53	36	8	☺☺
	DC150-05-07.300D1-	7,3		43	91	53	36	8	☺☺
	DC150-05-07.400D1-	7,4		43	91	53	36	8	☺☺
	DC150-05-07.500D1-	7,5		43	91	53	36	8	☺☺
	DC150-05-07.600D1-	7,6		43	91	53	36	8	☺☺
	DC150-05-07.700D1-	7,7		43	91	53	36	8	☺☺
	DC150-05-07.800D1-	7,8		43	91	53	36	8	☺☺
	DC150-05-07.900D1-	7,9		43	91	53	36	8	☺☺
	DC150-05-08.000D1-	8		43	91	53	36	8	☺☺
	DC150-05-08.100D1-	8,1		49	103	61	40	10	☺☺
	DC150-05-08.200D1-	8,2		49	103	61	40	10	☺☺
	DC150-05-08.300D1-	8,3		49	103	61	40	10	☺☺
	DC150-05-08.400D1-	8,4		49	103	61	40	10	☺☺
	DC150-05-08.500D1-	8,5		49	103	61	40	10	☺☺
	DC150-05-08.600D1-	8,6		49	103	61	40	10	☺☺
	DC150-05-08.700D1-	8,7		49	103	61	40	10	☺☺
	DC150-05-08.800D1-	8,8		49	103	61	40	10	☺☺
	DC150-05-09.000D1-	9		49	103	61	40	10	☺☺
	DC150-05-09.100D1-	9,1		49	103	61	40	10	☺☺
	DC150-05-09.200D1-	9,2		49	103	61	40	10	☺☺
	DC150-05-09.300D1-	9,3		49	103	61	40	10	☺☺
	DC150-05-09.400D1-	9,4		49	103	61	40	10	☺☺
	DC150-05-09.500D1-	9,5		49	103	61	40	10	☺☺
	DC150-05-09.600D1-	9,6		49	103	61	40	10	☺☺
	DC150-05-09.700D1-	9,7		49	103	61	40	10	☺☺
	DC150-05-09.800D1-	9,8		49	103	61	40	10	☺☺
	DC150-05-09.900D1-	9,9		49	103	61	40	10	☺☺
DC150-05-10.000D1-	10		49	103	61	40	10	☺☺	
DC150-05-10.100D1-	10,1		56	118	71	45	12	☺☺	
DC150-05-10.200D1-	10,2		56	118	71	45	12	☺☺	
DC150-05-10.300D1-	10,3		56	118	71	45	12	☺☺	
DC150-05-10.400D1-	10,4		56	118	71	45	12	☺☺	
DC150-05-10.500D1-	10,5		56	118	71	45	12	☺☺	
DC150-05-10.600D1-	10,6		56	118	71	45	12	☺☺	
DC150-05-10.800D1-	10,8		56	118	71	45	12	☺☺	
DC150-05-11.000D1-	11		56	118	71	45	12	☺☺	
DC150-05-11.100D1-	11,1		56	118	71	45	12	☺☺	
DC150-05-11.200D1-	11,2		56	118	71	45	12	☺☺	
DC150-05-11.300D1-	11,3		56	118	71	45	12	☺☺	
DC150-05-11.500D1-	11,5		56	118	71	45	12	☺☺	
DC150-05-11.600D1-	11,6		56	118	71	45	12	☺☺	
DC150-05-11.700D1-	11,7		56	118	71	45	12	☺☺	
DC150-05-11.800D1-	11,8		56	118	71	45	12	☺☺	
DC150-05-11.900D1-	11,9		56	118	71	45	12	☺☺	
DC150-05-12.000D1-	12		56	118	71	45	12	☺☺	
DC150-05-12.100D1-	12,1		60	124	77	45	14	☺☺	
DC150-05-12.200D1-	12,2		60	124	77	45	14	☺☺	
DC150-05-12.300D1-	12,3		60	124	77	45	14	☺☺	
DC150-05-12.400D1-	12,4		60	124	77	45	14	☺☺	
DC150-05-12.500D1-	12,5		60	124	77	45	14	☺☺	
DC150-05-12.700D1-	12,7	1/2"	60	124	77	45	14	☺☺	
DC150-05-12.800D1-	12,8		60	124	77	45	14	☺☺	

Ordering example for the WJ30RE grade: DC150-05-03.000A1-WJ30RE

Continued

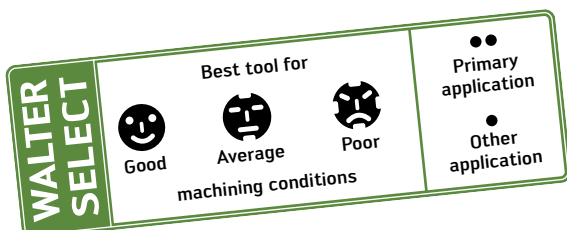
B 1

Continued

B 1

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB  	DC150-05-13.000D1-	13		60	124	77	45	14	
	DC150-05-13.100D1-	13,1		60	124	77	45	14	
	DC150-05-13.200D1-	13,2		60	124	77	45	14	
	DC150-05-13.500D1-	13,5		60	124	77	45	14	
	DC150-05-13.800D1-	13,8		60	124	77	45	14	
	DC150-05-14.000D1-	14		60	124	77	45	14	
	DC150-05-14.100D1-	14,1		63	133	83	48	16	
	DC150-05-14.200D1-	14,2		63	133	83	48	16	
	DC150-05-14.300D1-	14,3		63	133	83	48	16	
	DC150-05-14.500D1-	14,5		63	133	83	48	16	
	DC150-05-14.600D1-	14,6		63	133	83	48	16	
	DC150-05-14.800D1-	14,8		63	133	83	48	16	
	DC150-05-15.000D1-	15		63	133	83	48	16	
	DC150-05-15.100D1-	15,1		63	133	83	48	16	
	DC150-05-15.200D1-	15,2		63	133	83	48	16	
	DC150-05-15.300D1-	15,3		63	133	83	48	16	
	DC150-05-15.500D1-	15,5		63	133	83	48	16	
	DC150-05-15.600D1-	15,6		63	133	83	48	16	
	DC150-05-15.700D1-	15,7		63	133	83	48	16	
	DC150-05-15.800D1-	15,8		63	133	83	48	16	
DC150-05-16.000D1-	16		63	133	83	48	16		
DC150-05-16.500D1-	16,5		71	143	93	48	18		
DC150-05-16.600D1-	16,6		71	143	93	48	18		
DC150-05-17.000D1-	17		71	143	93	48	18		
DC150-05-17.200D1-	17,2		71	143	93	48	18		
DC150-05-17.300D1-	17,3		71	143	93	48	18		
DC150-05-17.500D1-	17,5		71	143	93	48	18		
DC150-05-17.700D1-	17,7		71	143	93	48	18		
DC150-05-17.800D1-	17,8		71	143	93	48	18		
DC150-05-18.000D1-	18		71	143	93	48	18		
DC150-05-18.100D1-	18,1		77	153	101	50	20		
DC150-05-18.500D1-	18,5		77	153	101	50	20		
DC150-05-18.800D1-	18,8		77	153	101	50	20		
DC150-05-19.000D1-	19		77	153	101	50	20		
DC150-05-19.500D1-	19,5		77	153	101	50	20		
DC150-05-19.700D1-	19,7		77	153	101	50	20		
DC150-05-20.000D1-	20		77	153	101	50	20		

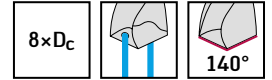
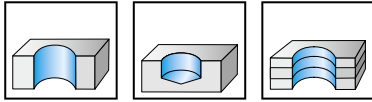
Ordering example for the WJ30RE grade: DC150-05-03.000A1-WJ30RE



# Solid carbide drills with coolant-through DC150 Perform



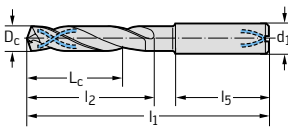
B 1



	P	M	K	N	S	H	O
WJ30TA	●	●	●	●	●	●	●

Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30TA
DC150-08-03.000A1-	3		28	74	34	36	6	●
DC150-08-03.100A1-	3,1		28	74	34	36	6	●
DC150-08-03.175A1-	3,175	1/8"	28	74	34	36	6	●
DC150-08-03.200A1-	3,2		28	74	34	36	6	●
DC150-08-03.300A1-	3,3		28	74	34	36	6	●
DC150-08-03.400A1-	3,4		28	74	34	36	6	●
DC150-08-03.500A1-	3,5		28	74	34	36	6	●
DC150-08-03.572A1-	3,572	9/64"	28	74	34	36	6	●
DC150-08-03.600A1-	3,6		28	74	34	36	6	●
DC150-08-03.700A1-	3,7		28	74	34	36	6	●
DC150-08-03.800A1-	3,8		37	85	45	36	6	●
DC150-08-03.900A1-	3,9		37	85	45	36	6	●
DC150-08-03.969A1-	3,969	5/32"	37	85	45	36	6	●
DC150-08-04.000A1-	4		37	85	45	36	6	●
DC150-08-04.100A1-	4,1		37	85	45	36	6	●
DC150-08-04.200A1-	4,2		37	85	45	36	6	●
DC150-08-04.300A1-	4,3		37	85	45	36	6	●
DC150-08-04.366A1-	4,366	11/64"	37	85	45	36	6	●
DC150-08-04.400A1-	4,4		37	85	45	36	6	●
DC150-08-04.500A1-	4,5		37	85	45	36	6	●
DC150-08-04.600A1-	4,6		37	85	45	36	6	●
DC150-08-04.700A1-	4,7		37	85	45	36	6	●
DC150-08-04.763A1-	4,763	3/16"	48	97	57	36	6	●
DC150-08-04.800A1-	4,8		48	97	57	36	6	●
DC150-08-04.900A1-	4,9		48	97	57	36	6	●
DC150-08-05.000A1-	5		48	97	57	36	6	●
DC150-08-05.100A1-	5,1		48	97	57	36	6	●
DC150-08-05.159A1-	5,159	13/64"	48	97	57	36	6	●
DC150-08-05.200A1-	5,2		48	97	57	36	6	●
DC150-08-05.300A1-	5,3		48	97	57	36	6	●
DC150-08-05.400A1-	5,4		48	97	57	36	6	●
DC150-08-05.500A1-	5,5		48	97	57	36	6	●
DC150-08-05.556A1-	5,556	7/32"	48	97	57	36	6	●
DC150-08-05.600A1-	5,6		48	97	57	36	6	●
DC150-08-05.700A1-	5,7		48	97	57	36	6	●
DC150-08-05.800A1-	5,8		48	97	57	36	6	●
DC150-08-05.900A1-	5,9		48	97	57	36	6	●
DC150-08-05.953A1-	5,953	15/64"	48	97	57	36	6	●
DC150-08-06.000A1-	6		48	97	57	36	6	●
DC150-08-06.100A1-	6,1		55	106	66	36	8	●
DC150-08-06.200A1-	6,2		55	106	66	36	8	●
DC150-08-06.300A1-	6,3		55	106	66	36	8	●
DC150-08-06.350A1-	6,35	1/4"	55	106	66	36	8	●
DC150-08-06.400A1-	6,4		55	106	66	36	8	●
DC150-08-06.500A1-	6,5		55	106	66	36	8	●
DC150-08-06.600A1-	6,6		55	106	66	36	8	●
DC150-08-06.700A1-	6,7		55	106	66	36	8	●

Shank DIN 6535 HA



Ordering example for the WJ30TA grade: DC150-08-03.000A1-WJ30TA

Continued

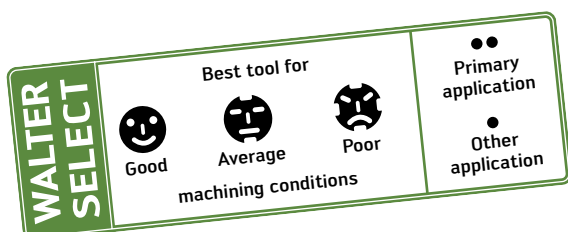
Continued

B 1

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30TA	
	Shank DIN 6535 HA	DC150-08-06.747A1-	6,747	17/64"	55	106	66	36	8	☺
		DC150-08-06.800A1-	6,8		55	106	66	36	8	☺
		DC150-08-06.900A1-	6,9		55	106	66	36	8	☺
		DC150-08-07.000A1-	7		55	106	66	36	8	☺
		DC150-08-07.100A1-	7,1		64	116	76	36	8	☺
		DC150-08-07.144A1-	7,144	9/32"	64	116	76	36	8	☺
		DC150-08-07.200A1-	7,2		64	116	76	36	8	☺
		DC150-08-07.300A1-	7,3		64	116	76	36	8	☺
		DC150-08-07.400A1-	7,4		64	116	76	36	8	☺
		DC150-08-07.500A1-	7,5		64	116	76	36	8	☺
		DC150-08-07.541A1-	7,541	19/64"	64	116	76	36	8	☺
		DC150-08-07.600A1-	7,6		64	116	76	36	8	☺
		DC150-08-07.700A1-	7,7		64	116	76	36	8	☺
		DC150-08-07.800A1-	7,8		64	116	76	36	8	☺
		DC150-08-07.900A1-	7,9		64	116	76	36	8	☺
		DC150-08-07.938A1-	7,938	5/16"	64	116	76	36	8	☺
		DC150-08-08.000A1-	8		64	116	76	36	8	☺
		DC150-08-08.100A1-	8,1		80	139	95	40	10	☺
		DC150-08-08.200A1-	8,2		80	139	95	40	10	☺
		DC150-08-08.300A1-	8,3		80	139	95	40	10	☺
		DC150-08-08.334A1-	8,334	21/64"	80	139	95	40	10	☺
		DC150-08-08.400A1-	8,4		80	139	95	40	10	☺
		DC150-08-08.500A1-	8,5		80	139	95	40	10	☺
		DC150-08-08.600A1-	8,6		80	139	95	40	10	☺
		DC150-08-08.700A1-	8,7		80	139	95	40	10	☺
		DC150-08-08.731A1-	8,731	11/32"	80	139	95	40	10	☺
		DC150-08-08.800A1-	8,8		80	139	95	40	10	☺
		DC150-08-08.900A1-	8,9		80	139	95	40	10	☺
		DC150-08-09.000A1-	9		80	139	95	40	10	☺
		DC150-08-09.100A1-	9,1		80	139	95	40	10	☺
		DC150-08-09.128A1-	9,128	23/64"	80	139	95	40	10	☺
		DC150-08-09.200A1-	9,2		80	139	95	40	10	☺
		DC150-08-09.300A1-	9,3		80	139	95	40	10	☺
	DC150-08-09.400A1-	9,4		80	139	95	40	10	☺	
	DC150-08-09.500A1-	9,5		80	139	95	40	10	☺	
	DC150-08-09.525A1-	9,525	3/8"	80	139	95	40	10	☺	
	DC150-08-09.600A1-	9,6		80	139	95	40	10	☺	
	DC150-08-09.700A1-	9,7		80	139	95	40	10	☺	
	DC150-08-09.800A1-	9,8		80	139	95	40	10	☺	
	DC150-08-09.900A1-	9,9		80	139	95	40	10	☺	
	DC150-08-09.922A1-	9,922	25/64"	80	139	95	40	10	☺	
	DC150-08-10.000A1-	10		80	139	95	40	10	☺	
	DC150-08-10.100A1-	10,1		96	163	114	45	12	☺	
	DC150-08-10.200A1-	10,2		96	163	114	45	12	☺	
	DC150-08-10.300A1-	10,3		96	163	114	45	12	☺	
	DC150-08-10.319A1-	10,319	13/32"	96	163	114	45	12	☺	
	DC150-08-10.400A1-	10,4		96	163	114	45	12	☺	
	DC150-08-10.500A1-	10,5		96	163	114	45	12	☺	
	DC150-08-10.700A1-	10,7		96	163	114	45	12	☺	
	DC150-08-10.716A1-	10,716	27/64"	96	163	114	45	12	☺	
	DC150-08-10.800A1-	10,8		96	163	114	45	12	☺	
	DC150-08-10.900A1-	10,9		96	163	114	45	12	☺	
	DC150-08-11.000A1-	11		96	163	114	45	12	☺	
	DC150-08-11.100A1-	11,1		96	163	114	45	12	☺	
	DC150-08-11.113A1-	11,113	7/16"	96	163	114	45	12	☺	
	DC150-08-11.200A1-	11,2		96	163	114	45	12	☺	
	DC150-08-11.300A1-	11,3		96	163	114	45	12	☺	

Ordering example for the WJ30TA grade: DC150-08-03.000A1-WJ30TA

Continued



Continued

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30TA	
	Shank DIN 6535 HA	DC150-08-11.500A1-	11,5		96	163	114	45	12	⊗
		DC150-08-11.600A1-	11,6		96	163	114	45	12	⊗
		DC150-08-11.700A1-	11,7		96	163	114	45	12	⊗
		DC150-08-11.800A1-	11,8		96	163	114	45	12	⊗
		DC150-08-11.900A1-	11,9		96	163	114	45	12	⊗
		DC150-08-11.906A1-	11,906	15/32"	96	163	114	45	12	⊗
		DC150-08-12.000A1-	12		96	163	114	45	12	⊗
		DC150-08-12.303A1-	12,303	31/64"	119	182	133	45	14	⊗
		DC150-08-12.500A1-	12,5		119	182	133	45	14	⊗
		DC150-08-12.700A1-	12,7	1/2"	119	182	133	45	14	⊗
		DC150-08-13.000A1-	13		119	182	133	45	14	⊗
		DC150-08-13.494A1-	13,494	17/32"	119	182	133	45	14	⊗
		DC150-08-13.500A1-	13,5		119	182	133	45	14	⊗
		DC150-08-14.000A1-	14		119	182	133	45	14	⊗
		DC150-08-14.288A1-	14,288	9/16"	136	204	152	48	16	⊗
		DC150-08-14.500A1-	14,5		136	204	152	48	16	⊗
		DC150-08-15.000A1-	15		136	204	152	48	16	⊗
		DC150-08-15.500A1-	15,5		136	204	152	48	16	⊗
		DC150-08-15.875A1-	15,875	5/8"	136	204	152	48	16	⊗
		DC150-08-16.000A1-	16		136	204	152	48	16	⊗
	DC150-08-16.500A1-	16,5		153	223	171	48	18	⊗	
	DC150-08-17.000A1-	17		153	223	171	48	18	⊗	
	DC150-08-17.500A1-	17,5		153	223	171	48	18	⊗	
	DC150-08-18.000A1-	18		153	223	171	48	18	⊗	
	DC150-08-18.500A1-	18,5		170	244	190	50	20	⊗	
	DC150-08-19.000A1-	19		170	244	190	50	20	⊗	
	DC150-08-19.050A1-	19,05	3/4"	170	244	190	50	20	⊗	
	DC150-08-19.500A1-	19,5		170	244	190	50	20	⊗	
	DC150-08-20.000A1-	20		170	244	190	50	20	⊗	

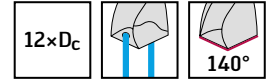
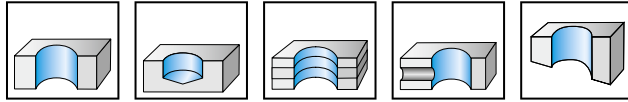
Ordering example for the WJ30TA grade: DC150-08-03.000A1-WJ30TA

B 1

# Solid carbide drills with coolant-through DC150 Perform



B 1



	P	M	K	N	S	H	O
WJ30TA	●	●	●	●	●	●	●

Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30TA
DC150-12-03.000A1-	3		48	92	54	36	6	●
DC150-12-03.100A1-	3,1		48	92	54	36	6	●
DC150-12-03.175A1-	3,175	1/8"	48	92	54	36	6	●
DC150-12-03.200A1-	3,2		48	92	54	36	6	●
DC150-12-03.300A1-	3,3		48	92	54	36	6	●
DC150-12-03.400A1-	3,4		48	92	54	36	6	●
DC150-12-03.500A1-	3,5		48	92	54	36	6	●
DC150-12-03.572A1-	3,572	9/64"	48	92	54	36	6	●
DC150-12-03.600A1-	3,6		48	92	54	36	6	●
DC150-12-03.700A1-	3,7		48	92	54	36	6	●
DC150-12-03.800A1-	3,8		56	102	64	36	6	●
DC150-12-03.900A1-	3,9		56	102	64	36	6	●
DC150-12-03.969A1-	3,969	5/32"	56	102	64	36	6	●
DC150-12-04.000A1-	4		56	102	64	36	6	●
DC150-12-04.100A1-	4,1		56	102	64	36	6	●
DC150-12-04.200A1-	4,2		56	102	64	36	6	●
DC150-12-04.300A1-	4,3		56	102	64	36	6	●
DC150-12-04.366A1-	4,366	11/64"	56	102	64	36	6	●
DC150-12-04.400A1-	4,4		56	102	64	36	6	●
DC150-12-04.500A1-	4,5		56	102	64	36	6	●
DC150-12-04.600A1-	4,6		56	102	64	36	6	●
DC150-12-04.700A1-	4,7		56	102	64	36	6	●
DC150-12-04.763A1-	4,763	3/16"	74	121	83	36	6	●
DC150-12-04.800A1-	4,8		74	121	83	36	6	●
DC150-12-04.900A1-	4,9		74	121	83	36	6	●
DC150-12-05.000A1-	5		74	121	83	36	6	●
DC150-12-05.100A1-	5,1		74	121	83	36	6	●
DC150-12-05.159A1-	5,159	13/64"	74	121	83	36	6	●
DC150-12-05.200A1-	5,2		74	121	83	36	6	●
DC150-12-05.300A1-	5,3		74	121	83	36	6	●
DC150-12-05.400A1-	5,4		74	121	83	36	6	●
DC150-12-05.500A1-	5,5		74	121	83	36	6	●
DC150-12-05.550A1-	5,55		74	121	83	36	6	●
DC150-12-05.556A1-	5,556	7/32"	74	121	83	36	6	●
DC150-12-05.600A1-	5,6		74	121	83	36	6	●
DC150-12-05.700A1-	5,7		74	121	83	36	6	●
DC150-12-05.800A1-	5,8		74	121	83	36	6	●
DC150-12-05.900A1-	5,9		74	121	83	36	6	●
DC150-12-06.000A1-	6		74	121	83	36	6	●
DC150-12-06.100A1-	6,1		98	148	110	36	8	●
DC150-12-06.200A1-	6,2		98	148	110	36	8	●
DC150-12-06.300A1-	6,3		98	148	110	36	8	●
DC150-12-06.350A1-	6,35	1/4"	98	148	110	36	8	●

Ordering example for the WJ30TA grade: DC150-12-03.000A1-WJ30TA

Continued

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

Continued

	Designation	D <sub>c</sub> mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30TA
	DC150-12-06.400A1-	6,4		98	148	110	36	8	☺
	DC150-12-06.500A1-	6,5		98	148	110	36	8	☺
	DC150-12-06.600A1-	6,6		98	148	110	36	8	☺
	DC150-12-06.700A1-	6,7		98	148	110	36	8	☺
	DC150-12-06.747A1-	6,747	17/64"	98	148	110	36	8	☺
	DC150-12-06.800A1-	6,8		98	148	110	36	8	☺
	DC150-12-06.900A1-	6,9		98	148	110	36	8	☺
	DC150-12-07.000A1-	7		98	148	110	36	8	☺
	DC150-12-07.100A1-	7,1		98	148	110	36	8	☺
	DC150-12-07.144A1-	7,144	9/32"	98	148	110	36	8	☺
	DC150-12-07.200A1-	7,2		98	148	110	36	8	☺
	DC150-12-07.300A1-	7,3		98	148	110	36	8	☺
	DC150-12-07.400A1-	7,4		98	148	110	36	8	☺
	DC150-12-07.500A1-	7,5		98	148	110	36	8	☺
	DC150-12-07.541A1-	7,541	19/64"	98	148	110	36	8	☺
	DC150-12-07.800A1-	7,8		98	148	110	36	8	☺
	DC150-12-07.900A1-	7,9		98	148	110	36	8	☺
	DC150-12-07.938A1-	7,938	5/16"	98	148	110	36	8	☺
	DC150-12-08.000A1-	8		98	148	110	36	8	☺
	DC150-12-08.100A1-	8,1		123	180	138	40	10	☺
	DC150-12-08.200A1-	8,2		123	180	138	40	10	☺
	DC150-12-08.300A1-	8,3		123	180	138	40	10	☺
	DC150-12-08.400A1-	8,4		123	180	138	40	10	☺
	DC150-12-08.500A1-	8,5		123	180	138	40	10	☺
	DC150-12-08.600A1-	8,6		123	180	138	40	10	☺
	DC150-12-08.700A1-	8,7		123	180	138	40	10	☺
	DC150-12-08.731A1-	8,731	11/32"	123	180	138	40	10	☺
	DC150-12-08.800A1-	8,8		123	180	138	40	10	☺
	DC150-12-09.000A1-	9		123	180	138	40	10	☺
	DC150-12-09.128A1-	9,128	23/64"	123	180	138	40	10	☺
	DC150-12-09.200A1-	9,2		123	180	138	40	10	☺
	DC150-12-09.300A1-	9,3		123	180	138	40	10	☺
	DC150-12-09.500A1-	9,5		123	180	138	40	10	☺
	DC150-12-09.525A1-	9,525	3/8"	123	180	138	40	10	☺
	DC150-12-09.600A1-	9,6		123	180	138	40	10	☺
	DC150-12-09.700A1-	9,7		123	180	138	40	10	☺
DC150-12-09.800A1-	9,8		123	180	138	40	10	☺	
DC150-12-09.922A1-	9,922	25/64"	123	180	138	40	10	☺	
DC150-12-10.000A1-	10		123	180	138	40	10	☺	
DC150-12-10.100A1-	10,1		140	206	158	45	12	☺	
DC150-12-10.200A1-	10,2		140	206	158	45	12	☺	
DC150-12-10.300A1-	10,3		140	206	158	45	12	☺	
DC150-12-10.319A1-	10,319	13/32"	140	206	158	45	12	☺	
DC150-12-10.500A1-	10,5		140	206	158	45	12	☺	
DC150-12-10.716A1-	10,716	27/64"	140	206	158	45	12	☺	
DC150-12-10.800A1-	10,8		140	206	158	45	12	☺	
DC150-12-11.000A1-	11		140	206	158	45	12	☺	
DC150-12-11.100A1-	11,1		140	206	158	45	12	☺	
DC150-12-11.113A1-	11,113	7/16"	140	206	158	45	12	☺	
DC150-12-11.200A1-	11,2		140	206	158	45	12	☺	
DC150-12-11.500A1-	11,5		140	206	158	45	12	☺	
DC150-12-11.509A1-	11,509	29/64"	140	206	158	45	12	☺	
DC150-12-11.700A1-	11,7		140	206	158	45	12	☺	
DC150-12-11.800A1-	11,8		140	206	158	45	12	☺	
DC150-12-11.906A1-	11,906	15/32"	140	206	158	45	12	☺	
DC150-12-12.000A1-	12		140	206	158	45	12	☺	
DC150-12-12.100A1-	12,1		168	230	182	45	14	☺	
DC150-12-12.200A1-	12,2		168	230	182	45	14	☺	
DC150-12-12.300A1-	12,3		168	230	182	45	14	☺	
DC150-12-12.303A1-	12,303	31/64"	168	230	182	45	14	☺	
DC150-12-12.500A1-	12,5		168	230	182	45	14	☺	

Ordering example for the WJ30TA grade: DC150-12-03.000A1-WJ30TA

Continued

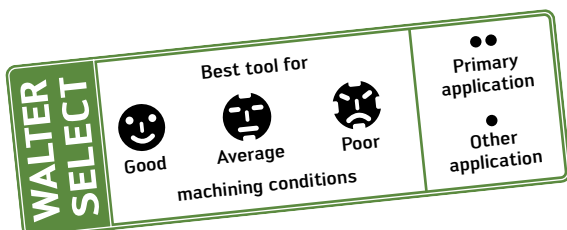
B 1

Continued

B 1

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30TA	
	Shank DIN 6535 HA	DC150-12-12.600A1-	12,6	168	230	182	45	14	☺	
		DC150-12-12.700A1-	12,7	168	230	182	45	14	☺	
		DC150-12-13.000A1-	13	168	230	182	45	14	☺	
		DC150-12-13.494A1-	13,494	17/32"	168	230	182	45	14	☺
		DC150-12-13.500A1-	13,5		168	230	182	45	14	☺
		DC150-12-14.000A1-	14		168	230	182	45	14	☺
		DC150-12-14.288A1-	14,288	9/16"	192	260	208	48	16	☺
		DC150-12-14.500A1-	14,5		192	260	208	48	16	☺
		DC150-12-15.000A1-	15		192	260	208	48	16	☺
		DC150-12-15.500A1-	15,5		192	260	208	48	16	☺
		DC150-12-15.875A1-	15,875	5/8"	192	260	208	48	16	☺
		DC150-12-16.000A1-	16		192	260	208	48	16	☺
		DC150-12-16.500A1-	16,5		216	285	234	48	18	☺
		DC150-12-17.000A1-	17		216	285	234	48	18	☺
		DC150-12-17.500A1-	17,5		216	285	234	48	18	☺
		DC150-12-18.000A1-	18		216	285	234	48	18	☺
		DC150-12-19.000A1-	19		238	310	258	50	20	☺
		DC150-12-20.000A1-	20		238	310	258	50	20	☺

Ordering example for the WJ30TA grade: DC150-12-03.000A1-WJ30TA



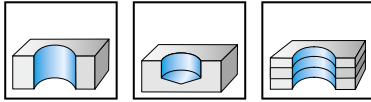


# Solid carbide twist drills DC150 Perform



B 1

– Up to 1.9 mm dimensions in accordance with DIN 1897



	P	M	K	N	S	H	O
WJ30RE	●	●	●	●	●	●	●

	Designation	D <sub>c</sub> h7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	d <sub>1</sub> h6 mm	WJ30RE
<p>Shank DIN 6535 HA</p>	DC150-03-01.500U0-	1,5		6	32	9	1,5	●
	DC150-03-01.588U0-	1,588	1/16"	7	34	10	1,588	●
	DC150-03-01.600U0-	1,6		7	34	10	1,6	●
	DC150-03-01.700U0-	1,7		7	34	10	1,7	●
	DC150-03-01.800U0-	1,8		8	36	11	1,8	●
	DC150-03-01.820U0-	1,82		8	36	11	1,82	●
	DC150-03-01.900U0-	1,9		8	36	11	1,9	●
	DC150-03-01.984U0-	1,984	5/64"	8	38	12	1,984	●
	DC150-03-02.000U0-	2		8	38	12	2	●
	DC150-03-02.050U0-	2,05		8	38	12	2,05	●
	DC150-03-02.100U0-	2,1		8	38	12	2,1	●
	DC150-03-02.200U0-	2,2		9	40	13	2,2	●
	DC150-03-02.300U0-	2,3		9	40	13	2,3	●
	DC150-03-02.381U0-	2,381	3/32"	10	43	14	2,381	●
	DC150-03-02.400U0-	2,4		10	43	14	2,4	●
	DC150-03-02.500U0-	2,5		10	43	14	2,5	●
	DC150-03-02.600U0-	2,6		10	43	14	2,6	●
	DC150-03-02.700U0-	2,7		11	46	16	2,7	●
	DC150-03-02.778U0-	2,778	7/64"	11	46	16	2,778	●
	DC150-03-02.800U0-	2,8		11	46	16	2,8	●
DC150-03-02.900U0-	2,9		11	46	16	2,9	●	

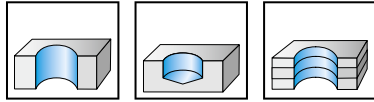
Ordering example for the WJ30RE grade: DC150-03-01.500U0-WJ30RE

# Solid carbide twist drills

## DC150 Perform



B 1

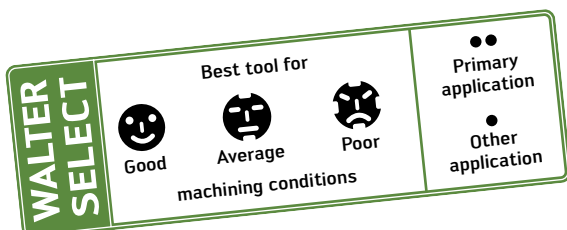


	P	M	K	N	S	H	O
WJ30RE	●	●	●	●	●	●	●

Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE
DC150-03-03.000A0-	3		14	62	20	36	6	●
DC150-03-03.100A0-	3,1		14	62	20	36	6	●
DC150-03-03.175A0-	3,175	1/8"	14	62	20	36	6	●
DC150-03-03.200A0-	3,2		14	62	20	36	6	●
DC150-03-03.250A0-	3,25		14	62	20	36	6	●
DC150-03-03.300A0-	3,3		14	62	20	36	6	●
DC150-03-03.400A0-	3,4		14	62	20	36	6	●
DC150-03-03.500A0-	3,5		14	62	20	36	6	●
DC150-03-03.572A0-	3,572	9/64"	14	62	20	36	6	●
DC150-03-03.600A0-	3,6		14	62	20	36	6	●
DC150-03-03.700A0-	3,7		14	62	20	36	6	●
DC150-03-03.800A0-	3,8		17	66	24	36	6	●
DC150-03-03.900A0-	3,9		17	66	24	36	6	●
DC150-03-03.969A0-	3,969	5/32"	17	66	24	36	6	●
DC150-03-04.000A0-	4		17	66	24	36	6	●
DC150-03-04.100A0-	4,1		17	66	24	36	6	●
DC150-03-04.200A0-	4,2		17	66	24	36	6	●
DC150-03-04.300A0-	4,3		17	66	24	36	6	●
DC150-03-04.366A0-	4,366	11/64"	17	66	24	36	6	●
DC150-03-04.400A0-	4,4		17	66	24	36	6	●
DC150-03-04.500A0-	4,5		17	66	24	36	6	●
DC150-03-04.600A0-	4,6		17	66	24	36	6	●
DC150-03-04.650A0-	4,65		17	66	24	36	6	●
DC150-03-04.700A0-	4,7		17	66	24	36	6	●
DC150-03-04.763A0-	4,763	3/16"	20	66	28	36	6	●
DC150-03-04.800A0-	4,8		20	66	28	36	6	●
DC150-03-04.900A0-	4,9		20	66	28	36	6	●
DC150-03-05.000A0-	5		20	66	28	36	6	●
DC150-03-05.100A0-	5,1		20	66	28	36	6	●
DC150-03-05.159A0-	5,159	13/64"	20	66	28	36	6	●
DC150-03-05.200A0-	5,2		20	66	28	36	6	●
DC150-03-05.300A0-	5,3		20	66	28	36	6	●
DC150-03-05.400A0-	5,4		20	66	28	36	6	●
DC150-03-05.500A0-	5,5		20	66	28	36	6	●
DC150-03-05.550A0-	5,55		20	66	28	36	6	●
DC150-03-05.556A0-	5,556	7/32"	20	66	28	36	6	●
DC150-03-05.600A0-	5,6		20	66	28	36	6	●
DC150-03-05.700A0-	5,7		20	66	28	36	6	●
DC150-03-05.800A0-	5,8		20	66	28	36	6	●
DC150-03-05.900A0-	5,9		20	66	28	36	6	●
DC150-03-05.953A0-	5,953	15/64"	20	66	28	36	6	●
DC150-03-06.000A0-	6		20	66	28	36	6	●
DC150-03-06.100A0-	6,1		24	79	34	36	8	●

Ordering example for the WJ30RE grade: DC150-03-03.000A0-WJ30RE

Continued



Continued

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE	
	Shank DIN 6535 HA	DC150-03-06.200A0-		24	79	34	36	8	☺☺	
		DC150-03-06.300A0-		24	79	34	36	8	☺☺	
		DC150-03-06.350A0-	6,35	1/4"	24	79	34	36	8	☺☺
		DC150-03-06.400A0-	6,4		24	79	34	36	8	☺☺
		DC150-03-06.500A0-	6,5		24	79	34	36	8	☺☺
		DC150-03-06.600A0-	6,6		24	79	34	36	8	☺☺
		DC150-03-06.700A0-	6,7		24	79	34	36	8	☺☺
		DC150-03-06.747A0-	6,747	17/64"	24	79	34	36	8	☺☺
		DC150-03-06.800A0-	6,8		24	79	34	36	8	☺☺
		DC150-03-06.900A0-	6,9		24	79	34	36	8	☺☺
		DC150-03-07.000A0-	7		24	79	34	36	8	☺☺
		DC150-03-07.100A0-	7,1		29	79	41	36	8	☺☺
		DC150-03-07.144A0-	7,144	9/32"	29	79	41	36	8	☺☺
		DC150-03-07.200A0-	7,2		29	79	41	36	8	☺☺
		DC150-03-07.300A0-	7,3		29	79	41	36	8	☺☺
		DC150-03-07.400A0-	7,4		29	79	41	36	8	☺☺
		DC150-03-07.500A0-	7,5		29	79	41	36	8	☺☺
		DC150-03-07.541A0-	7,541	19/64"	29	79	41	36	8	☺☺
		DC150-03-07.600A0-	7,6		29	79	41	36	8	☺☺
		DC150-03-07.700A0-	7,7		29	79	41	36	8	☺☺
		DC150-03-07.800A0-	7,8		29	79	41	36	8	☺☺
		DC150-03-07.900A0-	7,9		29	79	41	36	8	☺☺
		DC150-03-07.938A0-	7,938	5/16"	29	79	41	36	8	☺☺
		DC150-03-08.000A0-	8		29	79	41	36	8	☺☺
		DC150-03-08.100A0-	8,1		35	89	47	40	10	☺☺
		DC150-03-08.200A0-	8,2		35	89	47	40	10	☺☺
		DC150-03-08.300A0-	8,3		35	89	47	40	10	☺☺
		DC150-03-08.334A0-	8,334	21/64"	35	89	47	40	10	☺☺
		DC150-03-08.400A0-	8,4		35	89	47	40	10	☺☺
		DC150-03-08.500A0-	8,5		35	89	47	40	10	☺☺
		DC150-03-08.600A0-	8,6		35	89	47	40	10	☺☺
		DC150-03-08.700A0-	8,7		35	89	47	40	10	☺☺
		DC150-03-08.731A0-	8,731	11/32"	35	89	47	40	10	☺☺
		DC150-03-08.800A0-	8,8		35	89	47	40	10	☺☺
		DC150-03-08.900A0-	8,9		35	89	47	40	10	☺☺
		DC150-03-09.000A0-	9		35	89	47	40	10	☺☺
	DC150-03-09.100A0-	9,1		35	89	47	40	10	☺☺	
	DC150-03-09.200A0-	9,2		35	89	47	40	10	☺☺	
	DC150-03-09.300A0-	9,3		35	89	47	40	10	☺☺	
	DC150-03-09.400A0-	9,4		35	89	47	40	10	☺☺	
	DC150-03-09.500A0-	9,5		35	89	47	40	10	☺☺	
	DC150-03-09.525A0-	9,525	3/8"	35	89	47	40	10	☺☺	
	DC150-03-09.600A0-	9,6		35	89	47	40	10	☺☺	
	DC150-03-09.700A0-	9,7		35	89	47	40	10	☺☺	
	DC150-03-09.800A0-	9,8		35	89	47	40	10	☺☺	
	DC150-03-09.900A0-	9,9		35	89	47	40	10	☺☺	
	DC150-03-09.922A0-	9,922	25/64"	35	89	47	40	10	☺☺	
	DC150-03-10.000A0-	10		35	89	47	40	10	☺☺	
	DC150-03-10.100A0-	10,1		40	102	55	45	12	☺☺	
	DC150-03-10.200A0-	10,2		40	102	55	45	12	☺☺	
	DC150-03-10.300A0-	10,3		40	102	55	45	12	☺☺	
	DC150-03-10.319A0-	10,319	13/32"	40	102	55	45	12	☺☺	
	DC150-03-10.400A0-	10,4		40	102	55	45	12	☺☺	
	DC150-03-10.500A0-	10,5		40	102	55	45	12	☺☺	
	DC150-03-10.600A0-	10,6		40	102	55	45	12	☺☺	
	DC150-03-10.716A0-	10,716	27/64"	40	102	55	45	12	☺☺	
	DC150-03-10.800A0-	10,8		40	102	55	45	12	☺☺	
	DC150-03-11.000A0-	11		40	102	55	45	12	☺☺	
	DC150-03-11.100A0-	11,1		40	102	55	45	12	☺☺	
	DC150-03-11.113A0-	11,113	7/16"	40	102	55	45	12	☺☺	
	DC150-03-11.200A0-	11,2		40	102	55	45	12	☺☺	

Ordering example for the WJ30RE grade: DC150-03-03.000A0-WJ30RE

Continued

B 1

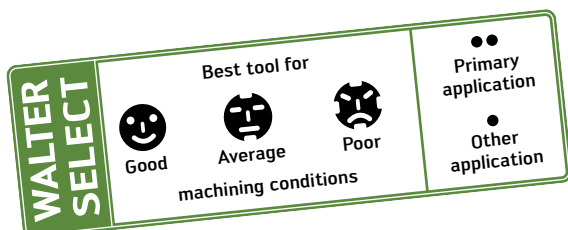
Continued

B 1

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE
Shank DIN 6535 HA 	DC150-03-11.300A0-	11,3		40	102	55	45	12	☺
	DC150-03-11.400A0-	11,4		40	102	55	45	12	☺
	DC150-03-11.500A0-	11,5		40	102	55	45	12	☺
	DC150-03-11.509A0-	11,509	29/64"	40	102	55	45	12	☺
	DC150-03-11.700A0-	11,7		40	102	55	45	12	☺
	DC150-03-11.800A0-	11,8		40	102	55	45	12	☺
	DC150-03-11.900A0-	11,9		40	102	55	45	12	☺
	DC150-03-12.000A0-	12		40	102	55	45	12	☺
	DC150-03-12.100A0-	12,1		43	107	60	45	14	☺
	DC150-03-12.200A0-	12,2		43	107	60	45	14	☺
	DC150-03-12.250A0-	12,25		43	107	60	45	14	☺
	DC150-03-12.300A0-	12,3		43	107	60	45	14	☺
	DC150-03-12.303A0-	12,303	31/64"	43	107	60	45	14	☺
	DC150-03-12.500A0-	12,5		43	107	60	45	14	☺
	DC150-03-12.700A0-	12,7	1/2"	43	107	60	45	14	☺
	DC150-03-12.800A0-	12,8		43	107	60	45	14	☺
	DC150-03-13.000A0-	13		43	107	60	45	14	☺
	DC150-03-13.100A0-	13,1		43	107	60	45	14	☺
	DC150-03-13.300A0-	13,3		43	107	60	45	14	☺
	DC150-03-13.494A0-	13,494	17/32"	43	107	60	45	14	☺
	DC150-03-13.500A0-	13,5		43	107	60	45	14	☺
	DC150-03-14.000A0-	14		43	107	60	45	14	☺
	DC150-03-14.200A0-	14,2		45	115	65	48	16	☺
	DC150-03-14.288A0-	14,288	9/16"	45	115	65	48	16	☺
	DC150-03-14.500A0-	14,5		45	115	65	48	16	☺
	DC150-03-14.700A0-	14,7		45	115	65	48	16	☺
	DC150-03-14.800A0-	14,8		45	115	65	48	16	☺
	DC150-03-15.000A0-	15		45	115	65	48	16	☺
	DC150-03-15.100A0-	15,1		45	115	65	48	16	☺
	DC150-03-15.500A0-	15,5		45	115	65	48	16	☺
DC150-03-15.800A0-	15,8		45	115	65	48	16	☺	
DC150-03-15.875A0-	15,875	5/8"	45	115	65	48	16	☺	
DC150-03-16.000A0-	16		45	115	65	48	16	☺	
DC150-03-16.500A0-	16,5		51	123	73	48	18	☺	
DC150-03-16.750A0-	16,75		51	123	73	48	18	☺	
DC150-03-17.000A0-	17		51	123	73	48	18	☺	
DC150-03-17.500A0-	17,5		51	123	73	48	18	☺	
DC150-03-17.800A0-	17,8		51	123	73	48	18	☺	
DC150-03-18.000A0-	18		51	123	73	48	18	☺	
DC150-03-19.000A0-	19		55	131	79	50	20	☺	
DC150-03-20.000A0-	20		55	131	79	50	20	☺	
DIN 6535 HE, turned 180° DIN 6535 HB 	DC150-03-03.000D0-	3		14	62	20	36	6	☺
	DC150-03-03.100D0-	3,1		14	62	20	36	6	☺
	DC150-03-03.200D0-	3,2		14	62	20	36	6	☺
	DC150-03-03.300D0-	3,3		14	62	20	36	6	☺
	DC150-03-03.400D0-	3,4		14	62	20	36	6	☺
	DC150-03-03.500D0-	3,5		14	62	20	36	6	☺
	DC150-03-03.600D0-	3,6		14	62	20	36	6	☺
	DC150-03-03.700D0-	3,7		14	62	20	36	6	☺
	DC150-03-03.800D0-	3,8		17	66	24	36	6	☺
	DC150-03-03.900D0-	3,9		17	66	24	36	6	☺
	DC150-03-04.000D0-	4		17	66	24	36	6	☺
	DC150-03-04.200D0-	4,2		17	66	24	36	6	☺
	DC150-03-04.300D0-	4,3		17	66	24	36	6	☺
	DC150-03-04.500D0-	4,5		17	66	24	36	6	☺
	DC150-03-04.650D0-	4,65		17	66	24	36	6	☺
DC150-03-04.700D0-	4,7		17	66	24	36	6	☺	

Ordering example for the WJ30RE grade: DC150-03-03.000A0-WJ30RE

Continued



Continued

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB	DC150-03-04.800D0-	4,8		20	66	28	36	6	☺
	DC150-03-05.000D0-	5		20	66	28	36	6	☺
	DC150-03-05.100D0-	5,1		20	66	28	36	6	☺
	DC150-03-05.300D0-	5,3		20	66	28	36	6	☺
	DC150-03-05.500D0-	5,5		20	66	28	36	6	☺
	DC150-03-05.550D0-	5,55		20	66	28	36	6	☺
	DC150-03-05.600D0-	5,6		20	66	28	36	6	☺
	DC150-03-05.800D0-	5,8		20	66	28	36	6	☺
	DC150-03-06.000D0-	6		20	66	28	36	6	☺
	DC150-03-06.100D0-	6,1		24	79	34	36	8	☺
	DC150-03-06.200D0-	6,2		24	79	34	36	8	☺
	DC150-03-06.300D0-	6,3		24	79	34	36	8	☺
	DC150-03-06.500D0-	6,5		24	79	34	36	8	☺
	DC150-03-06.600D0-	6,6		24	79	34	36	8	☺
	DC150-03-06.700D0-	6,7		24	79	34	36	8	☺
	DC150-03-06.800D0-	6,8		24	79	34	36	8	☺
	DC150-03-07.000D0-	7		24	79	34	36	8	☺
	DC150-03-07.100D0-	7,1		29	79	41	36	8	☺
	DC150-03-07.400D0-	7,4		29	79	41	36	8	☺
	DC150-03-07.500D0-	7,5		29	79	41	36	8	☺
	DC150-03-07.600D0-	7,6		29	79	41	36	8	☺
	DC150-03-07.800D0-	7,8		29	79	41	36	8	☺
	DC150-03-08.000D0-	8		29	79	41	36	8	☺
	DC150-03-08.100D0-	8,1		35	89	47	40	10	☺
	DC150-03-08.200D0-	8,2		35	89	47	40	10	☺
	DC150-03-08.300D0-	8,3		35	89	47	40	10	☺
	DC150-03-08.400D0-	8,4		35	89	47	40	10	☺
	DC150-03-08.500D0-	8,5		35	89	47	40	10	☺
	DC150-03-08.600D0-	8,6		35	89	47	40	10	☺
	DC150-03-08.700D0-	8,7		35	89	47	40	10	☺
	DC150-03-08.800D0-	8,8		35	89	47	40	10	☺
	DC150-03-09.000D0-	9		35	89	47	40	10	☺
	DC150-03-09.100D0-	9,1		35	89	47	40	10	☺
	DC150-03-09.500D0-	9,5		35	89	47	40	10	☺
	DC150-03-09.700D0-	9,5		35	89	47	40	10	☺
	DC150-03-09.800D0-	9,8		35	89	47	40	10	☺
	DC150-03-10.000D0-	10		35	89	47	40	10	☺
	DC150-03-10.100D0-	10,1		40	102	55	45	12	☺
	DC150-03-10.200D0-	10,2		40	102	55	45	12	☺
DC150-03-10.300D0-	10,3		40	102	55	45	12	☺	
DC150-03-10.400D0-	10,4		40	102	55	45	12	☺	
DC150-03-10.500D0-	10,5		40	102	55	45	12	☺	
DC150-03-10.600D0-	10,6		40	102	55	45	12	☺	
DC150-03-10.800D0-	10,8		40	102	55	45	12	☺	
DC150-03-10.900D0-	10,9		40	102	55	45	12	☺	
DC150-03-11.000D0-	11		40	102	55	45	12	☺	
DC150-03-11.100D0-	11,1		40	102	55	45	12	☺	
DC150-03-11.200D0-	11,2		40	102	55	45	12	☺	
DC150-03-11.300D0-	11,3		40	102	55	45	12	☺	
DC150-03-11.500D0-	11,5		40	102	55	45	12	☺	
DC150-03-11.600D0-	11,6		40	102	55	45	12	☺	
DC150-03-11.800D0-	11,8		40	102	55	45	12	☺	
DC150-03-12.000D0-	12		40	102	55	45	12	☺	
DC150-03-12.200D0-	12,2		43	107	60	45	14	☺	
DC150-03-12.300D0-	12,3		43	107	60	45	14	☺	
DC150-03-12.500D0-	12,5		43	107	60	45	14	☺	
DC150-03-13.000D0-	13		43	107	60	45	14	☺	
DC150-03-13.200D0-	13,2		43	107	60	45	14	☺	
DC150-03-13.300D0-	13,3		43	107	60	45	14	☺	
DC150-03-13.400D0-	13,4		43	107	60	45	14	☺	
DC150-03-13.500D0-	13,5		43	107	60	45	14	☺	

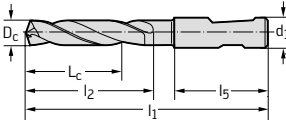
Ordering example for the WJ30RE grade: DC150-03-03.000A0-WJ30RE

Continued

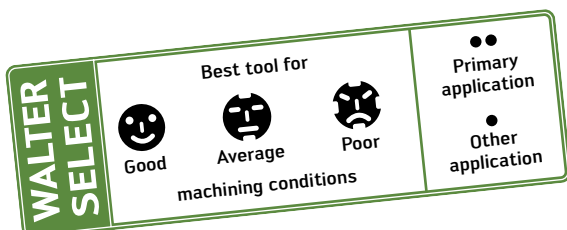
B 1

Continued

B 1

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30RE
DIN 6535 HE, turned 180° DIN 6535 HB  	DC150-03-13.600D0-	13,6		43	107	60	45	14	
	DC150-03-13.800D0-	13,8		43	107	60	45	14	
	DC150-03-14.000D0-	14		43	107	60	45	14	
	DC150-03-14.500D0-	14,5		45	115	65	48	16	
	DC150-03-15.000D0-	15		45	115	65	48	16	
	DC150-03-15.100D0-	15,1		45	115	65	48	16	
	DC150-03-16.000D0-	16		45	115	65	48	16	
	DC150-03-16.500D0-	16,5		51	123	73	48	18	
	DC150-03-17.000D0-	17		51	123	73	48	18	
	DC150-03-17.500D0-	17,5		51	123	73	48	18	
	DC150-03-18.000D0-	18		51	123	73	48	18	
	DC150-03-18.500D0-	18,5		55	131	79	50	20	
	DC150-03-19.000D0-	19		55	131	79	50	20	
	DC150-03-20.000D0-	20		55	131	79	50	20	

Ordering example for the WJ30RE grade: DC150-03-03.000A0-WJ30RE

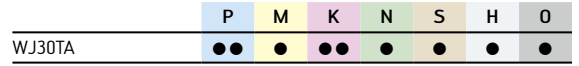
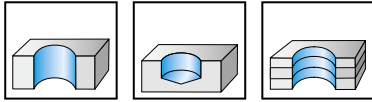


# Solid carbide twist drills

## DC150 Perform



B 1



Shank DIN 6535 HA	Designation	D <sub>c</sub>	D <sub>c</sub>	L <sub>c</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>5</sub>	d <sub>1</sub>	WJ30TA
		m7	Inch/no.	mm	mm	mm	mm	h6	
	DC150-05-03.000A0-	3		23	66	28	36	6	●
	DC150-05-03.100A0-	3,1		23	66	28	36	6	●
	DC150-05-03.175A0-	3,175	1/8"	23	66	28	36	6	●
	DC150-05-03.200A0-	3,2		23	66	28	36	6	●
	DC150-05-03.250A0-	3,25		23	66	28	36	6	●
	DC150-05-03.300A0-	3,3		23	66	28	36	6	●
	DC150-05-03.400A0-	3,4		23	66	28	36	6	●
	DC150-05-03.500A0-	3,5		23	66	28	36	6	●
	DC150-05-03.600A0-	3,6		23	66	28	36	6	●
	DC150-05-03.650A0-	3,65		23	66	28	36	6	●
	DC150-05-03.700A0-	3,7		23	66	28	36	6	●
	DC150-05-03.800A0-	3,8		29	74	36	36	6	●
	DC150-05-03.900A0-	3,9		29	74	36	36	6	●
	DC150-05-03.969A0-	3,969	5/32"	29	74	36	36	6	●
	DC150-05-04.000A0-	4		29	74	36	36	6	●
	DC150-05-04.100A0-	4,1		29	74	36	36	6	●
	DC150-05-04.200A0-	4,2		29	74	36	36	6	●
	DC150-05-04.300A0-	4,3		29	74	36	36	6	●
	DC150-05-04.366A0-	4,366	11/64"	29	74	36	36	6	●
	DC150-05-04.400A0-	4,4		29	74	36	36	6	●
	DC150-05-04.500A0-	4,5		29	74	36	36	6	●
	DC150-05-04.600A0-	4,6		29	74	36	36	6	●
	DC150-05-04.650A0-	4,65		29	74	36	36	6	●
	DC150-05-04.700A0-	4,7		29	74	36	36	6	●
	DC150-05-04.763A0-	4,763	3/16"	35	82	44	36	6	●
	DC150-05-04.800A0-	4,8		35	82	44	36	6	●
	DC150-05-04.900A0-	4,9		35	82	44	36	6	●
	DC150-05-05.000A0-	5		35	82	44	36	6	●
	DC150-05-05.100A0-	5,1		35	82	44	36	6	●
	DC150-05-05.159A0-	5,159	13/64"	35	82	44	36	6	●
	DC150-05-05.200A0-	5,2		35	82	44	36	6	●
	DC150-05-05.300A0-	5,3		35	82	44	36	6	●
	DC150-05-05.400A0-	5,4		35	82	44	36	6	●
	DC150-05-05.500A0-	5,5		35	82	44	36	6	●
	DC150-05-05.550A0-	5,55		35	82	44	36	6	●
	DC150-05-05.556A0-	5,556	7/32"	35	82	44	36	6	●
	DC150-05-05.600A0-	5,6		35	82	44	36	6	●
	DC150-05-05.700A0-	5,7		35	82	44	36	6	●
	DC150-05-05.800A0-	5,8		35	82	44	36	6	●
	DC150-05-05.900A0-	5,9		35	82	44	36	6	●
	DC150-05-05.953A0-	5,953	15/64"	35	82	44	36	6	●
	DC150-05-06.000A0-	6		35	82	44	36	6	●
	DC150-05-06.100A0-	6,1		43	91	53	36	8	●
	DC150-05-06.200A0-	6,2		43	91	53	36	8	●
	DC150-05-06.300A0-	6,3		43	91	53	36	8	●
	DC150-05-06.350A0-	6,35	1/4"	43	91	53	36	8	●
	DC150-05-06.400A0-	6,4		43	91	53	36	8	●

Ordering example for the WJ30TA grade: DC150-05-03.000A0-WJ30TA

Continued

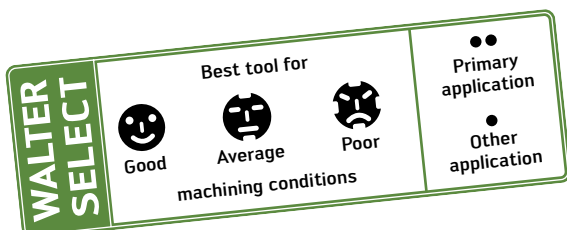
Continued

B 1

Designation	D <sub>c</sub> mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30TA
Shank DIN 6535 HA								
DC150-05-06.500A0-	6,5		43	91	53	36	8	☺
DC150-05-06.600A0-	6,6		43	91	53	36	8	☺
DC150-05-06.700A0-	6,7		43	91	53	36	8	☺
DC150-05-06.747A0-	6,747	17/64"	43	91	53	36	8	☺
DC150-05-06.800A0-	6,8		43	91	53	36	8	☺
DC150-05-06.900A0-	6,9		43	91	53	36	8	☺
DC150-05-07.000A0-	7		43	91	53	36	8	☺
DC150-05-07.100A0-	7,1		43	91	53	36	8	☺
DC150-05-07.144A0-	7,144	9/32"	43	91	53	36	8	☺
DC150-05-07.200A0-	7,2		43	91	53	36	8	☺
DC150-05-07.300A0-	7,3		43	91	53	36	8	☺
DC150-05-07.400A0-	7,4		43	91	53	36	8	☺
DC150-05-07.500A0-	7,5		43	91	53	36	8	☺
DC150-05-07.600A0-	7,6		43	91	53	36	8	☺
DC150-05-07.700A0-	7,7		43	91	53	36	8	☺
DC150-05-07.800A0-	7,8		43	91	53	36	8	☺
DC150-05-07.900A0-	7,9		43	91	53	36	8	☺
DC150-05-07.938A0-	7,938	5/16"	43	91	53	36	8	☺
DC150-05-08.000A0-	8		43	91	53	36	8	☺
DC150-05-08.100A0-	8,1		49	103	61	40	10	☺
DC150-05-08.200A0-	8,2		49	103	61	40	10	☺
DC150-05-08.300A0-	8,3		49	103	61	40	10	☺
DC150-05-08.334A0-	8,334	21/64"	49	103	61	40	10	☺
DC150-05-08.400A0-	8,4		49	103	61	40	10	☺
DC150-05-08.500A0-	8,5		49	103	61	40	10	☺
DC150-05-08.600A0-	8,6		49	103	61	40	10	☺
DC150-05-08.700A0-	8,7		49	103	61	40	10	☺
DC150-05-08.731A0-	8,731	11/32"	49	103	61	40	10	☺
DC150-05-08.800A0-	8,8		49	103	61	40	10	☺
DC150-05-08.900A0-	8,9		49	103	61	40	10	☺
DC150-05-09.000A0-	9		49	103	61	40	10	☺
DC150-05-09.100A0-	9,1		49	103	61	40	10	☺
DC150-05-09.128A0-	9,128	23/64"	49	103	61	40	10	☺
DC150-05-09.200A0-	9,2		49	103	61	40	10	☺
DC150-05-09.300A0-	9,3		49	103	61	40	10	☺
DC150-05-09.400A0-	9,4		49	103	61	40	10	☺
DC150-05-09.500A0-	9,5		49	103	61	40	10	☺
DC150-05-09.525A0-	9,525	3/8"	49	103	61	40	10	☺
DC150-05-09.600A0-	9,6		49	103	61	40	10	☺
DC150-05-09.700A0-	9,7		49	103	61	40	10	☺
DC150-05-09.800A0-	9,8		49	103	61	40	10	☺
DC150-05-09.900A0-	9,9		49	103	61	40	10	☺
DC150-05-09.922A0-	9,922	25/64"	49	103	61	40	10	☺
DC150-05-10.000A0-	10		49	103	61	40	10	☺
DC150-05-10.100A0-	10,1		56	118	71	45	12	☺
DC150-05-10.200A0-	10,2		56	118	71	45	12	☺
DC150-05-10.300A0-	10,3		56	118	71	45	12	☺
DC150-05-10.319A0-	10,319	13/32"	56	118	71	45	12	☺
DC150-05-10.400A0-	10,4		56	118	71	45	12	☺
DC150-05-10.500A0-	10,5		56	118	71	45	12	☺
DC150-05-10.600A0-	10,6		56	118	71	45	12	☺
DC150-05-10.700A0-	10,7		56	118	71	45	12	☺
DC150-05-10.716A0-	10,716	27/64"	56	118	71	45	12	☺
DC150-05-10.800A0-	10,8		56	118	71	45	12	☺
DC150-05-11.000A0-	11		56	118	71	45	12	☺
DC150-05-11.113A0-	11,113	7/16"	56	118	71	45	12	☺
DC150-05-11.200A0-	11,2		56	118	71	45	12	☺

Ordering example for the WJ30TA grade: DC150-05-03.000A0-WJ30TA

Continued





Continued

	Designation	D <sub>c</sub> m7 mm	D <sub>c</sub> Inch/no.	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>5</sub> mm	d <sub>1</sub> h6 mm	WJ30TA
	Shank DIN 6535 HA								
	DC150-05-11.500A0-	11,5		56	118	71	45	12	⊕
	DC150-05-11.800A0-	11,8		56	118	71	45	12	⊕
	DC150-05-11.906A0-	11,906	15/32"	56	118	71	45	12	⊕
	DC150-05-12.000A0-	12		56	118	71	45	12	⊕
	DC150-05-12.200A0-	12,2		60	124	77	45	14	⊕
	DC150-05-12.300A0-	12,3		60	124	77	45	14	⊕
	DC150-05-12.400A0-	12,4		60	124	77	45	14	⊕
	DC150-05-12.500A0-	12,5		60	124	77	45	14	⊕
	DC150-05-12.600A0-	12,6		60	124	77	45	14	⊕
	DC150-05-12.700A0-	12,7	1/2"	60	124	77	45	14	⊕
	DC150-05-13.000A0-	13		60	124	77	45	14	⊕
	DC150-05-13.200A0-	13,2		60	124	77	45	14	⊕
	DC150-05-13.494A0-	13,494	17/32"	60	124	77	45	14	⊕
	DC150-05-13.500A0-	13,5		60	124	77	45	14	⊕
	DC150-05-13.800A0-	13,8		60	124	77	45	14	⊕
	DC150-05-14.000A0-	14		60	124	77	45	14	⊕
	DC150-05-14.200A0-	14,2		63	133	83	48	16	⊕
	DC150-05-14.288A0-	14,288	9/16"	63	133	83	48	16	⊕
	DC150-05-14.500A0-	14,5		63	133	83	48	16	⊕
DC150-05-15.000A0-	15		63	133	83	48	16	⊕	
DC150-05-15.500A0-	15,5		63	133	83	48	16	⊕	
DC150-05-15.800A0-	15,8		63	133	83	48	16	⊕	
DC150-05-16.000A0-	16		63	133	83	48	16	⊕	
DC150-05-16.500A0-	16,5		71	143	93	48	18	⊕	
DC150-05-17.000A0-	17		71	143	93	48	18	⊕	
DC150-05-17.500A0-	17,5		71	143	93	48	18	⊕	
DC150-05-18.000A0-	18		71	143	93	48	18	⊕	
DC150-05-19.000A0-	19		77	153	101	50	20	⊕	
DC150-05-19.500A0-	19,5		77	153	101	50	20	⊕	
DC150-05-20.000A0-	20		77	153	101	50	20	⊕	

Ordering example for the WJ30TA grade: DC150-05-03.000A0-WJ30TA

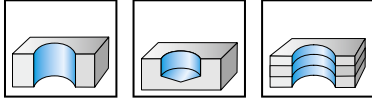
B 1

# HSS twist drills

## DA110 Perform



B 1

 - Available as set  
 - Type N


	Designation	D <sub>c</sub> h8 mm	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	d <sub>1</sub> f11 mm	WZ90AJ
Parallel shank	DA110-08-01.000U0-	1	10	34	12	1	☞
	DA110-08-01.100U0-	1,1	12	36	14	1,1	☞
	DA110-08-01.200U0-	1,2	14	38	16	1,2	☞
	DA110-08-01.300U0-	1,3	14	38	16	1,3	☞
	DA110-08-01.400U0-	1,4	15	40	18	1,4	☞
	DA110-08-01.500U0-	1,5	15	40	18	1,5	☞
	DA110-08-01.600U0-	1,6	17	43	20	1,6	☞
	DA110-08-01.700U0-	1,7	17	43	20	1,7	☞
	DA110-08-01.800U0-	1,8	19	46	22	1,8	☞
	DA110-08-01.900U0-	1,9	19	46	22	1,9	☞
	DA110-08-02.000U0-	2	20	49	24	2	☞
	DA110-08-02.100U0-	2,1	20	49	24	2,1	☞
	DA110-08-02.200U0-	2,2	23	53	27	2,2	☞
	DA110-08-02.300U0-	2,3	23	53	27	2,3	☞
	DA110-08-02.400U0-	2,4	26	57	30	2,4	☞
	DA110-08-02.500U0-	2,5	26	57	30	2,5	☞
	DA110-08-02.600U0-	2,6	26	57	30	2,6	☞
	DA110-08-02.700U0-	2,7	28	61	33	2,7	☞
	DA110-08-02.800U0-	2,8	28	61	33	2,8	☞
	DA110-08-02.900U0-	2,9	28	61	33	2,9	☞
	DA110-08-03.000U0-	3	28	61	33	3	☞
	DA110-08-03.100U0-	3,1	30	65	36	3,1	☞
	DA110-08-03.200U0-	3,2	30	65	36	3,2	☞
	DA110-08-03.300U0-	3,3	30	65	36	3,3	☞
	DA110-08-03.400U0-	3,4	33	70	39	3,4	☞
	DA110-08-03.500U0-	3,5	33	70	39	3,5	☞
	DA110-08-03.600U0-	3,6	33	70	39	3,6	☞
	DA110-08-03.700U0-	3,7	33	70	39	3,7	☞
	DA110-08-03.800U0-	3,8	36	75	43	3,8	☞
	DA110-08-03.900U0-	3,9	36	75	43	3,9	☞
	DA110-08-04.000U0-	4	36	75	43	4	☞
	DA110-08-04.100U0-	4,1	36	75	43	4,1	☞
DA110-08-04.200U0-	4,2	36	75	43	4,2	☞	
DA110-08-04.300U0-	4,3	39	80	47	4,3	☞	
DA110-08-04.400U0-	4,4	39	80	47	4,4	☞	
DA110-08-04.500U0-	4,5	39	80	47	4,5	☞	
DA110-08-04.600U0-	4,6	39	80	47	4,6	☞	
DA110-08-04.700U0-	4,7	39	80	47	4,7	☞	
DA110-08-04.800U0-	4,8	44	86	52	4,8	☞	
DA110-08-04.900U0-	4,9	44	86	52	4,9	☞	
DA110-08-05.000U0-	5	44	86	52	5	☞	
DA110-08-05.100U0-	5,1	44	86	52	5,1	☞	
DA110-08-05.200U0-	5,2	44	86	52	5,2	☞	
DA110-08-05.300U0-	5,3	44	86	52	5,3	☞	
DA110-08-05.400U0-	5,4	48	93	57	5,4	☞	
DA110-08-05.500U0-	5,5	48	93	57	5,5	☞	
DA110-08-05.600U0-	5,6	48	93	57	5,6	☞	

Ordering example for the WZ90AJ grade: DA110-08-01.000U0-WZ90AJ

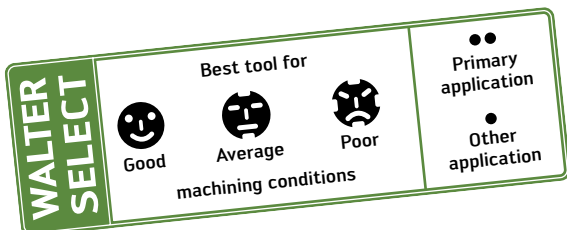
Continued

Continued

	Designation	D <sub>c</sub> h8 mm	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	d <sub>1</sub> f11 mm	WZ90AJ
	DA110-08-05.700U0-	5,7	48	93	57	5,7	
	DA110-08-05.800U0-	5,8	48	93	57	5,8	
	DA110-08-05.900U0-	5,9	48	93	57	5,9	
	DA110-08-06.000U0-	6	48	93	57	6	
	DA110-08-06.100U0-	6,1	52	101	63	6,1	
	DA110-08-06.200U0-	6,2	52	101	63	6,2	
	DA110-08-06.300U0-	6,3	52	101	63	6,3	
	DA110-08-06.400U0-	6,4	52	101	63	6,4	
	DA110-08-06.500U0-	6,5	52	101	63	6,5	
	DA110-08-06.600U0-	6,6	52	101	63	6,6	
	DA110-08-06.700U0-	6,7	52	101	63	6,7	
	DA110-08-06.800U0-	6,8	57	109	69	6,8	
	DA110-08-06.900U0-	6,9	57	109	69	6,9	
	DA110-08-07.000U0-	7	57	109	69	7	
	DA110-08-07.100U0-	7,1	57	109	69	7,1	
	DA110-08-07.200U0-	7,2	57	109	69	7,2	
	DA110-08-07.300U0-	7,3	57	109	69	7,3	
	DA110-08-07.400U0-	7,4	57	109	69	7,4	
	DA110-08-07.500U0-	7,5	57	109	69	7,5	
	DA110-08-07.600U0-	7,6	62	117	75	7,6	
	DA110-08-07.700U0-	7,7	62	117	75	7,7	
	DA110-08-07.800U0-	7,8	62	117	75	7,8	
	DA110-08-07.900U0-	7,9	62	117	75	7,9	
	DA110-08-08.000U0-	8	62	117	75	8	
	DA110-08-08.100U0-	8,1	62	117	75	8,1	
	DA110-08-08.200U0-	8,2	62	117	75	8,2	
	DA110-08-08.300U0-	8,3	62	117	75	8,3	
	DA110-08-08.400U0-	8,4	62	117	75	8,4	
	DA110-08-08.500U0-	8,5	62	117	75	8,5	
	DA110-08-08.600U0-	8,6	66	125	81	8,6	
	DA110-08-08.700U0-	8,7	66	125	81	8,7	
	DA110-08-08.800U0-	8,8	66	125	81	8,8	
	DA110-08-08.900U0-	8,9	66	125	81	8,9	
	DA110-08-09.000U0-	9	66	125	81	9	
	DA110-08-09.100U0-	9,1	66	125	81	9,1	
	DA110-08-09.200U0-	9,2	66	125	81	9,2	
	DA110-08-09.300U0-	9,3	66	125	81	9,3	
	DA110-08-09.400U0-	9,4	66	125	81	9,4	
	DA110-08-09.500U0-	9,5	66	125	81	9,5	
	DA110-08-09.600U0-	9,6	71	133	87	9,6	
DA110-08-09.700U0-	9,7	71	133	87	9,7		
DA110-08-09.800U0-	9,8	71	133	87	9,8		
DA110-08-09.900U0-	9,9	71	133	87	9,9		
DA110-08-10.000U0-	10	71	133	87	10		
DA110-08-10.100U0-	10,1	71	133	87	10,1		
DA110-08-10.200U0-	10,2	71	133	87	10,2		
DA110-08-10.300U0-	10,3	71	133	87	10,3		
DA110-08-10.400U0-	10,4	71	133	87	10,4		
DA110-08-10.500U0-	10,5	71	133	87	10,5		
DA110-08-10.700U0-	10,7	76	142	94	10,7		
DA110-08-10.800U0-	10,8	76	142	94	10,8		
DA110-08-11.000U0-	11	76	142	94	11		
DA110-08-11.100U0-	11,1	76	142	94	11,1		
DA110-08-11.300U0-	11,3	76	142	94	11,3		
DA110-08-11.500U0-	11,5	76	142	94	11,5		
DA110-08-11.800U0-	11,8	76	142	94	11,8		
DA110-08-12.000U0-	12	87	151	101	12		

Ordering example for the WZ90AJ grade: DA110-08-01.000U0-WZ90AJ

Continued



B 1

Continued

B 1

	Designation	D <sub>c</sub> h8 mm	L <sub>c</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	d <sub>1</sub> f11 mm	WZ90AJ
	DA110-08-12.100U0-	12,1	87	151	101	12,1	
	DA110-08-12.200U0-	12,2	87	151	101	12,2	
	DA110-08-12.500U0-	12,5	87	151	101	12,5	
	DA110-08-13.000U0-	13	87	151	101	13	
	DA110-08-13.500U0-	13,5	94	160	108	13,5	
	DA110-08-13.700U0-	13,7	94	160	108	13,7	
	DA110-08-14.000U0-	14	94	160	108	14	
	DA110-08-14.500U0-	14,5	99	169	114	14,5	
	DA110-08-15.000U0-	15	99	169	114	15	
	DA110-08-15.500U0-	15,5	104	178	120	15,5	
	DA110-08-16.000U0-	16	104	178	120	16	

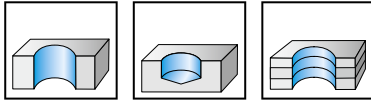
Ordering example for the WZ90AJ grade: DA110-08-01.000U0-WZ90AJ

**DA110 Perform HSS twist drill – sets**  
**DA110-SET-1-10.5-WZ90AJ**  
**DA110-SET-1-13-WZ90AJ**



B 1

– Type N



	P	M	K	N	S	H	O
WZ90AJ	●●	●	●●	●			●

Designation	Sets Dia. mm	Including core-hole drill [mm]	Pitch	Quantity
	1,0–10,5	3,3	0,5	24
		4,2		
		6,8		
		10,2		

Designation	Sets Dia. mm	Pitch	Quantity
	1,0–13,0	0,5	25

For the dimensions for the DA110 Perform twist drill, please see the ordering page.

# Cutting data for solid carbide drilling and reaming tools

## Solid carbide drills – with internal coolant

B 1

Material group	= Wet machining (E = emulsion, O = oil) = Dry machining is possible (M = MQL, L = dry) The cutting data must be selected from Walter GPS  v <sub>c</sub> = Cutting speed VRR = Feed rate chart, see page 41 * The classification of the machining groups can be found in the material group comparison table		Drilling depth			3 x D <sub>c</sub>			5 x D <sub>c</sub>						
			Designation			DC150 Perform			DC150 Perform						
			Standard			DIN 6537 K			DIN 6537 L						
			Coating/grade			WJ30RE			WJ30RE						
Dia. range [mm]			3–20			3–20									
Page			9			13									
Overview of the main material groups and code letters			Brinell hardness HB	Tensile strength R <sub>m</sub> [N/mm <sup>2</sup> ]	Machining group *										
			v <sub>c</sub>	VRR			v <sub>c</sub>	VRR							
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	62	P1	120	12	E O		110	12	E O		
		C > 0.25 to ≤ 0.55%	Annealed	190	93	P2	100	10	E O		100	10	E O		
		C > 0.25 to ≤ 0.55%	Heat-treated	210	103	P3	80	9	E O		80	9	E O		
		C > 0.55%	Annealed	190	93	P4	90	9	E O		90	9	E O		
		C > 0.55%	Heat-treated	300	146	P5	71	8	E O		71	8	E O		
		Free-machining steel (short-chipping)	Annealed	220	109	P6	120	12	E O		110	12	E O		
	Low-alloy steel	Annealed		175	86	P7	100	12	E O		100	12	E O		
		Heat-treated		285	139	P8	71	9	E O		71	9	E O		
		Heat-treated		380	186	P9	45	6	E O		45	6	E O		
		Heat-treated		430	215	P10	40	4	E O		36	4	E O		
High-alloy steel and high-alloy tool steel	Annealed		200	99	P11	80	9	E O		80	9	E O			
	Hardened and tempered		300	146	P12	63	10	E O		63	10	E O			
	Hardened and tempered		380	186	P13	50	6	E O		50	6	E O			
Stainless steel	Ferritic/martensitic, annealed		200	99	P14	80	10	E O		80	10	E O			
	Martensitic, heat-treated		330	161	P15	50	9	E O		50	9	E O			
M	Stainless steel	Austenitic, quench hardened		200	99	M1	40	5	E O		40	5	E O		
		Austenitic, precipitation hardened (PH)		300	146	M2	56	6	E O		56	6	E O		
		Austenitic/ferritic, duplex		230	113	M3	32	4	E O		32	4	E O		
K	Malleable cast iron	Ferritic		200	58	K1	100	16	E O		100	16	E O		
		Pearlitic		260	102	K2	71	16	E O		71	16	E O		
	Grey cast iron	Low tensile strength		180	29	K3	110	16	E O		110	16	E O		
		High tensile strength/austenitic		245	51	K4	90	16	E O		90	16	E O		
	Cast iron with spheroidal graphite	Ferritic		155	58	K5	110	16	E O		100	16	E O		
		Pearlitic		265	102	K6	71	16	E O		71	16	E O		
	GGV (CGI)		230	58	K7	80	16	E O		80	16	E O			
N	Wrought aluminium alloys	Not hardenable		30	-	N1	400	16	E O		400	16	E O		
		Hardenable, hardened		100	49	N2	400	16	E O		400	16	E O		
	Cast aluminium alloys	≤ 12% Si, not hardenable		75	38	N3	250	16	E O	M	200	16	E O	M	
		≤ 12% Si, hardenable, hardened		90	45	N4	220	16	E O	M	220	16	E O	M	
		> 12% Si, not hardenable		130	65	N5	200	16	E O	M	200	16	E O	M	
		Magnesium-based alloys		70	36	N6									
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	49	N7	180	8	E O		180	8	E O		
Brass, bronze, red brass			90	45	N8	160	10	E O		160	10	E O			
Cu alloys, short-chipping			110	55	N9	180	16	E O		180	16	E O			
High tensile, Ampco			300	146	N10	45	5	E O		45	5	E O			
S	Heat-resistant alloys	Fe-based	Annealed		200	99	S1	32	4	E O		32	4	E O	
			Hardened		280	136	S2	22	3	E O		22	3	E O	
		Ni- or Co-based	Annealed		250	122	S3	32	4	E O		32	4	E O	
			Hardened		350	171	S4	11	3	E O		11	3	E O	
			Cast		320	157	S5	18	3	E O		18	3	E O	
	Titanium alloys	Pure titanium		200	99	S6	45	6	E O		45	6	E O		
		α and β alloys, hardened		375	183	S7	32	4	E O		32	4	E O		
		β alloys		410	203	S8	28	4	E O		25	4	E O		
	Tungsten alloys		300	146	S9	18	3	E O		18	3	E O			
	Molybdenum alloys		300	146	S10	18	3	E O		18	3	E O			
H	Hardened steel	Hardened and tempered		50 HRC	-	H1	28	3	O E		28	3	O E		
		Hardened and tempered		55 HRC	-	H2									
		Hardened and tempered		60 HRC	-	H3									
		Hardened cast iron		55 HRC	-	H4									
O	Thermoplastics	Without abrasive fillers				O1	90	16	E O		90	16	E O		
	Thermosets	Without abrasive fillers				O2									
	Plastic, glass-fibre reinforced	GFRP				O3									
	Plastic, carbon-fibre reinforced	CFRP				O4									
	Plastic, aramid-fibre reinforced	AFRP				O5									
		Graphite (technical)		80 Shore			O6								

## - Without internal coolant

The specified cutting data represents average standard values.  
For specific applications, adjustment is recommended.





B 1

8 x D <sub>c</sub>				12 x D <sub>c</sub>				3 x D <sub>c</sub>				5 x D <sub>c</sub>							
DC150 Perform				DC150 Perform				DC150 Perform				DC150 Perform							
Walter				Walter				DIN 6539				DIN 6537 K				DIN 6537 L			
WJ30TA				WJ30TA				WJ30RE				WJ30RE				WJ30TA			
3-20				3-20				1,5-2,9				3-20				3-20			
19				22				25				26				31			
v <sub>c</sub>	VRR			v <sub>c</sub>	VRR			v <sub>c</sub>	VRR			v <sub>c</sub>	VRR						
110	12	E0		100	12	E0		80	12	E0		90	12	E0					
90	10	E0		80	10	E0		80	10	E0		80	10	E0					
71	9	E0		63	9	E0		71	10	E0		80	10	E0					
80	9	E0		71	9	E0		71	9	E0		71	9	E0					
71	9	E0		63	9	E0		56	8	E0		56	8	E0					
110	12	E0		100	12	E0		80	12	E0		90	12	E0					
90	12	E0		80	12	E0		80	12	E0		80	12	E0					
63	9	E0		50	9	E0		45	8	E0		50	8	E0					
36	7	E0		25	7	E0		32	6	E0		36	6	E0					
28	6	E0		22	6	E0		25	4	E0		28	4	E0					
80	9	E0		71	9	E0		63	9	E0		63	9	E0					
50	10	E0		36	10	E0		56	8	E0		56	8	E0					
45	7	E0		40	7	E0		40	6	E0		40	6	E0					
90	10	E0		80	10	E0		71	10	E0		71	10	E0					
45	9	E0		36	9	E0		50	8	E0		56	8	E0					
40	5	E0		36	5	E0		40	5	E0		40	5	E0					
50	6	E0		45	6	E0		40	5	E0		40	5	E0					
32	4	E0		28	4	E0						40	5	E0					
90	16	E0		80	16	E0		71	16	E0		71	16	E0					
71	16	E0		63	16	E0		50	12	E0		56	12	E0					
110	16	E0		90	16	E0		80	16	E0		90	16	E0					
90	16	E0		80	16	E0		71	16	E0		71	16	E0					
90	16	E0		71	16	E0		71	16	E0		80	16	E0					
63	16	E0		50	16	E0		50	12	E0		56	12	E0					
71	16	E0		50	16	E0		56	12	E0		63	12	E0					
400	16	E0	M	360	16	E0	M	250	10	E0	M	250	10	E0	M				
400	16	E0	M	360	16	E0	M	250	10	E0	M	250	10	E0	M				
250	16	E0	M	220	16	E0	M	200	16	E0	M	220	16	E0	M				
220	16	E0	M	200	16	E0	M	180	16	E0	M	200	16	E0	M				
200	16	E0	M	180	16	E0	M	140	12	E0	M	160	12	E0	M				
160	8	E0		120	8	E0		140	6	E0		160	6	E0					
140	10	E0		110	10	E0		140	10	E0		140	10	E0					
180	12	E0		160	12	E0		160	16	E0		180	16	E0					
45	5	E0		40	5	E0		50	5	E0		45	5	E0					
36	4	E0		32	4	E0													
22	3	E0		22	3	E0													
32	4	E0		28	4	E0													
18	3	E0		16	3	E0													
45	6	E0		36	6	E0		28	5	E0		32	5	E0					
28	4	E0		20	4	E0		20	3	E0		22	3	E0					
22	4	E0		16	4	E0		18	3	E0		20	3	E0					
18	3	E0		16	3	E0													
18	3	E0		16	3	E0													
25	3	OE		18	3	OE		20	3	OE		22	3	OE					
90	16	E0		80	16	E0		90	16	E0		90	16	E0					

# Cutting data for HSS drilling and reaming tools

## HSS drills

B 1

Material group	 = Wet machining (E = emulsion, O = oil)  = Dry machining is possible (M = MQL, L = dry) The cutting data must be selected from Walter GPS  v <sub>c</sub> = Cutting speed VRR = Feed rate chart, see page 41  * The classification of the machining groups can be found in the material group comparison table		Drilling depth		~8 × D <sub>c</sub>				
			Designation		DA110 Perform				
			Standard		DIN 338				
			Coating/grade		WZ90AJ				
			Dia. range [mm]		1–16				
Page		52							
Overview of the main material groups and code letters		Birrell hardness HB	Tensile strength R <sub>m</sub> [N/mm <sup>2</sup> ]	Machining group *	v <sub>c</sub>	VRR			
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125 62	P1	29	9	E	O
		C > 0.25 to ≤ 0.55%	Annealed	190 93	P2	29	10	E	O
		C > 0.25 to ≤ 0.55%	Heat-treated	210 103	P3	23	10	E	O
		C > 0.55%	Annealed	190 93	P4	22	8	E	O
		C > 0.55%	Heat-treated	300 146	P5	15	8	E	O
	Free-machining steel (short-chipping)	Annealed	220 109	P6	29	10	E	O	
	Low-alloy steel	Annealed	175 86	P7	29	10	E	O	
		Heat-treated	285 139	P8	13	8	E	O	
		Heat-treated	380 186	P9	9	3	E	O	
		Heat-treated	430 215	P10					
High-alloy steel and high-alloy tool steel	Annealed	200 99	P11	9	4	E	O		
	Hardened and tempered	300 146	P12	15	8	E	O		
	Hardened and tempered	380 186	P13	7	3	E	O		
Stainless steel	Ferritic/martensitic, annealed	200 99	P14	24	10	E	O		
	Martensitic, heat-treated	330 161	P15	15	8	E	O		
M	Stainless steel	Austenitic, quench hardened	200 99	M1	5	4	O	E	
		Austenitic, precipitation hardened (PH)	300 146	M2	8	5	E	O	
		Austenitic/ferritic, duplex	230 113	M3					
K	Malleable cast iron	Ferritic	200 58	K1	22	12	E	O	
		Pearlitic	260 102	K2	17	10	E	O	
	Grey cast iron	Low tensile strength	180 29	K3	28	12	E	O	
		High tensile strength/austenitic	245 51	K4	22	12	E	O	
	Cast iron with spheroidal graphite	Ferritic	155 58	K5	25	12	E	O	
		Pearlitic	265 102	K6	17	10	E	O	
GGV (CGI)		230 58	K7	20	10	E	O		
N	Wrought aluminium alloys	Not hardenable	30 -	N1					
		Hardenable, hardened	100 49	N2					
	Cast aluminium alloys	≤ 12% Si, not hardenable	75 38	N3					
		≤ 12% Si, hardenable, hardened	90 45	N4					
		> 12% Si, not hardenable	130 65	N5					
	Magnesium-based alloys		70 36	N6					
		Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper	100 49	N7	41	5	E	O
			Brass, bronze, red brass	90 45	N8				
Cu alloys, short-chipping	110 55		N9	51	12	E	O		
High tensile, Ampco	300 146		N10						
S	Heat-resistant alloys	Fe-based	Annealed	200 99	S1	4	3	O	E
			Hardened	280 136	S2				
		Ni- or Co-based	Annealed	250 122	S3				
			Hardened	350 171	S4				
			Cast	320 157	S5				
	Titanium alloys	Pure titanium	200 99	S6					
		α and β alloys, hardened	375 183	S7					
		β alloys	410 203	S8					
	Tungsten alloys		300 146	S9					
	Molybdenum alloys		300 146	S10					
H	Hardened steel	Hardened and tempered	50 HRC	-	H1				
		Hardened and tempered	55 HRC	-	H2				
		Hardened and tempered	60 HRC	-	H3				
	Hardened cast iron	Hardened and tempered	55 HRC	-	H4				
O	Thermoplastics	Without abrasive fillers			O1	25	12	E	O
	Thermosets	Without abrasive fillers			O2	28	8		L
	Plastic, glass-fibre reinforced	GFRP			O3				
	Plastic, carbon-fibre reinforced	CFRP			O4				
	Plastic, aramid-fibre reinforced	AFRP			O5				
	Graphite (technical)		80 Shore			O6			

The specified cutting data represents average standard values.  
For specific applications, adjustment is recommended.



## VRR: Feed rate charts for solid carbide and HSS drilling and reaming tools

B 1

Feed f [mm] for diameter [mm]											
VRR	1,5	2	2,5	4	5	6	8	10	12	15	20
1	0,005	0,007	0,008	0,013	0,017	0,018	0,021	0,024	0,026	0,029	0,033
2	0,010	0,013	0,017	0,027	0,033	0,037	0,042	0,047	0,052	0,058	0,067
3	0,015	0,020	0,025	0,040	0,050	0,055	0,063	0,071	0,077	0,087	0,10
4	0,020	0,027	0,033	0,053	0,067	0,073	0,084	0,094	0,10	0,12	0,13
5	0,025	0,033	0,042	0,067	0,083	0,091	0,11	0,12	0,13	0,14	0,17
6	0,030	0,040	0,050	0,080	0,10	0,11	0,13	0,14	0,15	0,17	0,20
7	0,035	0,047	0,058	0,093	0,12	0,13	0,15	0,16	0,18	0,20	0,23
8	0,040	0,053	0,067	0,11	0,13	0,15	0,17	0,19	0,21	0,23	0,27
9	0,045	0,060	0,075	0,12	0,15	0,16	0,19	0,21	0,23	0,26	0,30
10	0,050	0,067	0,083	0,13	0,17	0,18	0,21	0,24	0,26	0,29	0,33
12	0,060	0,080	0,10	0,16	0,20	0,22	0,25	0,28	0,31	0,35	0,40
16	0,080	0,11	0,13	0,21	0,27	0,29	0,34	0,38	0,41	0,46	0,53
20	0,10	0,13	0,17	0,27	0,33	0,37	0,42	0,47	0,52	0,58	0,67
25	0,125	0,167	0,21	0,33	0,42	0,46	0,53	0,59	0,65	0,72	0,83
30	0,150	0,200	0,25	0,40	0,50	0,55	0,63	0,71	0,77	0,87	1,00

# Walter Prototyp TC115 – ideal for a wide range of different materials.

## THE APPLICATION

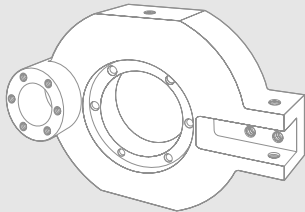
- Blind hole threads
- Dimension ranges:
  - M1.6–M20
  - MF: M8 ×1–M18 × 1.5
  - UNC: UNC6–UNC¾
  - UNF: UNF6–UNF½
- Primary application:
  - ISO P: 350–1000 N/mm<sup>2</sup>
  - ISO M: < 800 N/mm<sup>2</sup>
  - ISO K: GJS (GGG)
- Secondary application:
  - ISO N: Al wrought alloy,  
AlSi < 4% silicon

## THE TOOL

- HSS-E machine taps
- For blind holes up to  $3 \times D_N$
- Tolerances ISO 2/6H and 2B
- Chamfer form C and E
- Two variants: TiN-coated or vaporised

## APPLICATION EXAMPLE

Component: Toolholder

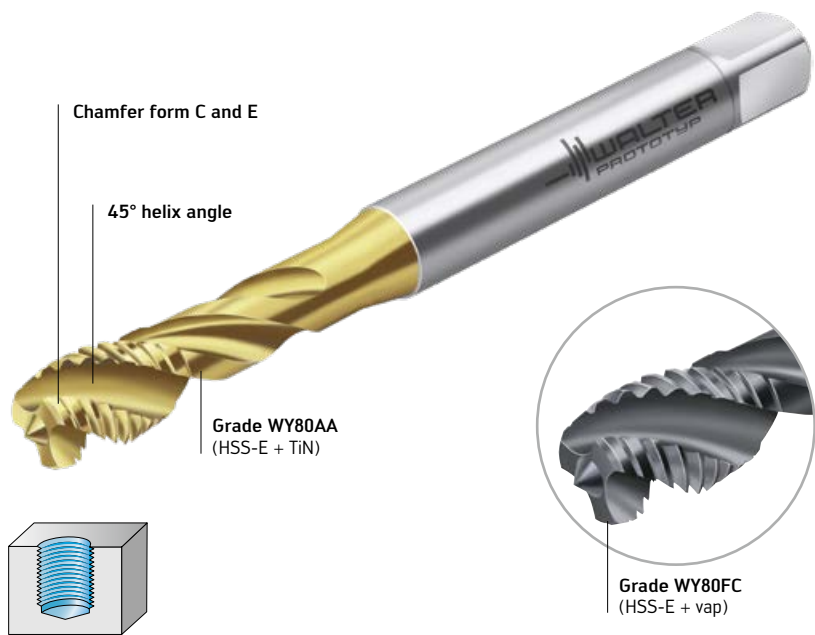
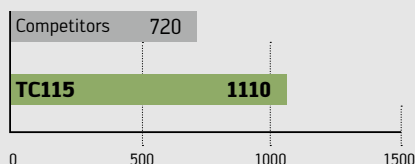


**Material:** 20 MnCr5  
**Tool:** TC115-M10-C0-WY80AA  
**Hole type:** Blind hole  
**Tensile strength:** 700 N/mm<sup>2</sup>  
**Coating:** TiN  
**Thread depth:** 25 mm (2,5 x D<sub>N</sub>)  
**Coolant:** Emulsion

### Cutting data:

Competitors	TC115
n = 159 rpm	n = 317 rpm
v <sub>c</sub> = 5 m/min	v <sub>c</sub> = 10 m/min

### Comparison: Tool life (number of threads)



Walter Prototyp TC115 Perform blind hole tap

Fig.: TC115-M10-C0-WY80AA (left)  
TC115-M10-C0-WY80FC (right)

## BENEFITS FOR YOU

- TiN coating: For a long tool life
- Vaporised: For excellent chip control; minimises weld formations
- Flexibility thanks to a wide range of uses in a variety of materials
- High process reliability

# Walter Prototyp TC216 – excellent performance for all batch sizes.

## THE APPLICATION

- Through-hole threads
- Dimension ranges:
  - M1.6–M20
  - MF: M8 × 1–M18 × 1.5
  - UNC: UNC6–UNC¾
  - UNF: UNF6–UNF½
- Primary application:
  - ISO P: 350–1000 N/mm<sup>2</sup>
  - ISO M: < 800 N/mm<sup>2</sup>
  - ISO K: GJS (GGG)
  - ISO N: Al wrought alloy,  
AISI < 4% silicon

## THE TOOL

- HSS-E machine taps
- For through holes up to  $3.5 \times D_N$
- Tolerances ISO 2/6H and 2B
- Chamfer form B
- Two variants: TiN-coated or vaporised



Walter Prototyp TC216 Perform through-hole tap

Fig.: TC216-M10-CO-WY80AA (left)  
TC216-M10-CO-WY80FC (right)

## BENEFITS FOR YOU

- TiN coating: For a long tool life
- Vaporised: For excellent chip control; minimises weld formations
- Flexibility thanks to a wide range of uses in a variety of materials
- High process reliability

## Product range overview of HSS-E taps M – Metric thread

Machining						
Thread depth	3 x D <sub>N</sub>			3 x D <sub>N</sub>		
Designation	TC216 Perform	TC216 Perform set 1	TC216 + DA110 Perform set 2*	TC115 Perform	TC115 Perform set 1	TC115 + DA110 Perform set 2*
Dimension range	M 1.6-M 20	M 3-M 12	M 3-M 12	M 1.6-M 20	M 3-M 12	M 3-M 12
Tolerance	6H	6H	6H	6H	6H	6H
Coolant supply	External	External	External	External	External	External
Chamfer form	B	B	B	C / E	C	C
Coating/grade	WY80FC / WY80AA	WY80FC / WY80AA	WY80FC / WY80AA	WY80FC / WY80AA	WY80FC / WY80AA	WY80FC / WY80AA
Page	45	46	47	48	50	51

## MF – Metric fine-pitch thread

Machining		
Thread depth	3 x D <sub>N</sub>	3 x D <sub>N</sub>
Designation	TC216 Perform	TC115 Perform
Dimension range	MF 8x1–MF 18x1.5	MF 8x1–MF 18x1.5
Tolerance	6H	6H
Coolant supply	External	External
Chamfer form	B	C
Coating/grade	WY80FC / WY80AA	WY80FC / WY80AA
Page	52	53

## UNC/UNF

Machining				
Thread depth	3 x D <sub>N</sub>	3 x D <sub>N</sub>	3 x D <sub>N</sub>	3 x D <sub>N</sub>
Designation	TC216 Perform	TC115 Perform	TC216 Perform	TC115 Perform
Dimension range	UNC 6-32–UNC 3/4-10	UNC 6-32–UNC 3/4-10	UNF 6-40–UNF 1/2-20	UNF 6-40–UNF 1/2-20
Tolerance	2B	2B	2B	2B
Coolant supply	External	External	External	External
Chamfer form	B	C	B	C
Coating/grade	WY80AA	WY80AA	WY80AA	WY80AA
Page	54	55	56	57

\* Incl. core-hole drill

# HSS-E machine taps

## TC216 Perform mm



– For long-chipping materials

≤  
3×DN

B=3,5-5

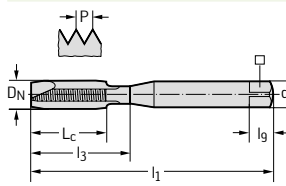
32HRC  
1000  
-350  
N/mm<sup>2</sup>

**M**  
DIN 13

ISO2/6H

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

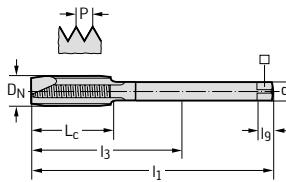
### DIN 371



Designation	DN	P mm	l <sub>1</sub> mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> h9 mm	□ mm	l <sub>g</sub> mm	N	WY80AA	WY80FC
TC216-M1.6-C0-	M 1.6	0,35	40	7	7	2,5	2,1	5	2		
TC216-M2-C0-	M 2	0,4	45	6	9	2,8	2,1	5	2		
TC216-M2.5-C0-	M 2.5	0,45	50	8	12,5	2,8	2,1	5	2		
TC216-M3-C0-	M 3	0,5	56	9	18	3,5	2,7	6	2		
TC216-M4-C0-	M 4	0,7	63	12	21	4,5	3,4	6	3		
TC216-M5-C0-	M 5	0,8	70	13	25	6	4,9	8	3		
TC216-M6-C0-	M 6	1	80	15	30	6	4,9	8	3		
TC216-M8-C0-	M 8	1,25	90	18	35	8	6,2	9	3		
TC216-M10-C0-	M 10	1,5	100	20	39	10	8	11	3		

Ordering example for the WY80FC grade: TC216-M3-C0-WY80FC

### DIN 376



Designation	DN	P mm	l <sub>1</sub> mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> h9 mm	□ mm	l <sub>g</sub> mm	N	WY80AA	WY80FC
TC216-M12-L0-	M 12	1,75	110	23	83	9	7	10	3		
TC216-M14-L0-	M 14	2	110	25	81	11	9	12	4		
TC216-M16-L0-	M 16	2	110	25	68	12	9	12	4		
TC216-M20-L0-	M 20	2,5	140	30	95	16	12	15	4		

Ordering example for the WY80FC grade: TC216-M12-L0-WY80FC

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

# HSS-E tap set 1

TC216 Perform



– Universal tap set

≤  
3×DN

B=3,5-5

32HRC  
1000  
-350  
N/mm<sup>2</sup>

**M**  
DIN 13

ISO2/6H

WY80AA

P	M	K	N	S	H	O

C1

## Tool



Designation	D <sub>N</sub> mm	Quantity	WY80AA
TC216-SET1-M3-M12-	M3	7	
	M4		
	M5		
	M6		
	M8		
	M10		
	M12		

Ordering example for the WY80AA grade: TC216-SET1-M3-M12-WY80AA



– Universal tap set

≤  
3×DN

B=3,5-5

32HRC  
1000  
-350  
N/mm<sup>2</sup>

**M**  
DIN 13

ISO2/6H

WY80FC

P	M	K	N	S	H	O

## Tool



Designation	D <sub>N</sub> mm	Quantity	WY80FC
TC216-SET1-M3-M12-	M3	7	
	M4		
	M5		
	M6		
	M8		
	M10		
	M12		

Ordering example for the WY80FC grade: TC216-SET1-M3-M12-WY80FC

Please refer to the corresponding order pages for the tool dimensions and suitability for the intended application.

/ ★ New addition to the product range

# HSS-E tap set 2

## TC216 + DA110 Perform mm



- Universal tap set
- Incl. core-hole drill

$\leq 3 \times D_N$

$B=3,5-5$

32HRC  
1000-350  
N/mm<sup>2</sup>

**M**  
DIN 13

IS02/6H

WY80AA

P	M	K	N	S	H	O
---	---	---	---	---	---	---

Tool	Designation	D <sub>N</sub> mm	Core hole dia. mm	Quantity	WY80AA
	TC216-SET2-M3-M12-	M3	2,5	14	
		M4	3,3		
		M5	4,2		
		M6	5,0		
		M8	6,8		
		M10	8,5		
		M12	10,2		

Ordering example for the WY80AA grade: TC216-SET2-M3-M12-WY80AA



- Universal tap set
- Incl. core-hole drill

$\leq 3 \times D_N$

$B=3,5-5$

32HRC  
1000-350  
N/mm<sup>2</sup>

**M**  
DIN 13

IS02/6H

WY80FC

P	M	K	N	S	H	O
---	---	---	---	---	---	---

Tool	Designation	D <sub>N</sub> mm	Core hole dia. mm	Quantity	WY80FC
	TC216-SET2-M3-M12-	M3	2,5	14	
		M4	3,3		
		M5	4,2		
		M6	5,0		
		M8	6,8		
		M10	8,5		
		M12	10,2		

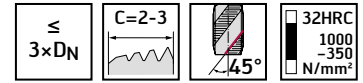
Ordering example for the WY80FC grade: TC216-SET1-M3-M12-WY80FC

Please refer to the corresponding order pages for the tool dimensions and suitability for the intended application.

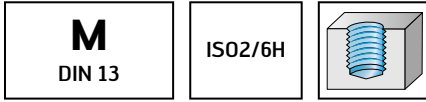
**HSS-E machine taps**  
**TC115 Perform**



- For long-chipping materials

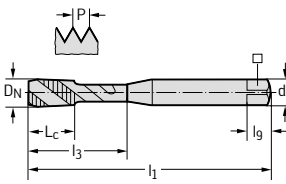


C1



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

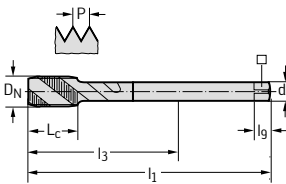
**DIN 371**



Designation	D <sub>N</sub>	P mm	l <sub>1</sub> mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> h9 mm	□ mm	l <sub>g</sub> mm	N	WY80AA	WY80FC
TC115-M1.6-C0-	M 1.6	0,35	40	6	6	2,5	2,1	5	2	●	●
TC115-M2-C0-	M 2	0,4	45	4	9	2,8	2,1	5	3	●	●
TC115-M2.5-C0-	M 2.5	0,45	50	4	12,5	2,8	2,1	5	3	●	●
TC115-M3-C0-	M 3	0,5	56	6	18	3,5	2,7	6	3	●	●
TC115-M4-C0-	M 4	0,7	63	7	21	4,5	3,4	6	3	●	●
TC115-M5-C0-	M 5	0,8	70	8	25	6	4,9	8	3	●	●
TC115-M6-C0-	M 6	1	80	10	30	6	4,9	8	3	●	●
TC115-M8-C0-	M 8	1,25	90	12	35	8	6,2	9	3	●	●
TC115-M10-C0-	M 10	1,5	100	15	39	10	8	11	3	●	●

Ordering example for the WY80FC grade: TC115-M3-C0-WY80FC

**DIN 376**



Designation	D <sub>N</sub>	P mm	l <sub>1</sub> mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> h9 mm	□ mm	l <sub>g</sub> mm	N	WY80AA	WY80FC
TC115-M12-L0-	M 12	1,75	110	16	83	9	7	10	3	●	●
TC115-M14-L0-	M 14	2	110	20	81	11	9	12	3	●	●
TC115-M16-L0-	M 16	2	110	20	68	12	9	12	3	●	●
TC115-M20-L0-	M 20	2,5	140	25	95	16	12	15	4	●	●

Ordering example for the WY80FC grade: TC115-M12-L0-WY80FC

**WALTER SELECT**

Best tool for machining conditions

Good  
 Average  
 Poor

●● Primary application  
 ● Other application

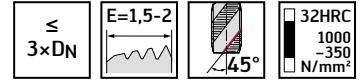


# HSS-E machine taps

## TC115 Perform

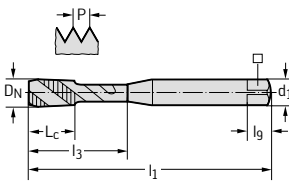


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA	●	●	●	●			

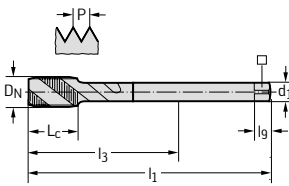
### DIN 371



Designation	D <sub>N</sub>	P mm	l <sub>1</sub> mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> h9 mm	mm	l <sub>g</sub> mm	N	WY80AA
TC115-M3-CE-	M 3	0,5	56	6	18	3,5	2,7	6	3	●
TC115-M4-CE-	M 4	0,7	63	7	21	4,5	3,4	6	3	●
TC115-M5-CE-	M 5	0,8	70	8	25	6	4,9	8	3	●
TC115-M6-CE-	M 6	1	80	10	30	6	4,9	8	3	●
TC115-M8-CE-	M 8	1,25	90	12	35	8	6,2	9	3	●
TC115-M10-CE-	M 10	1,5	100	15	39	10	8	11	3	●

Ordering example for the WY80AA grade: TC115-M3-CE-WY80AA

### DIN 376



Designation	D <sub>N</sub>	P mm	l <sub>1</sub> mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> h9 mm	mm	l <sub>g</sub> mm	N	WY80AA
TC115-M12-LE-	M 12	1,75	110	16	83	9	7	10	3	●
TC115-M14-LE-	M 14	2	110	20	81	11	9	12	3	●
TC115-M16-LE-	M 16	2	110	20	68	12	9	12	3	●
TC115-M20-LE-	M 20	2,5	140	25	95	16	12	15	4	●

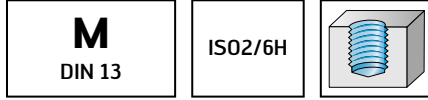
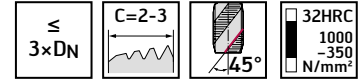
Ordering example for the WY80AA grade: TC115-M12-LE-WY80AA

C1

**HSS-E tap set 1**  
**TC115 Perform**



- Universal tap set



	P	M	K	N	S	H	O
WY80AA	●	●	●	●			

C1

**Tool**

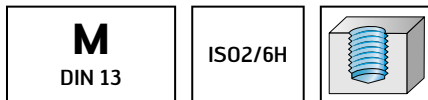
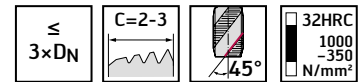


Designation	D <sub>N</sub>	Quantity	WY80AA
TC115-SET1-M3-M12-	M3	7	
	M4		
	M5		
	M6		
	M8		
	M10		
	M12		

Ordering example for the WY80AA grade: TC115-SET1-M3-M12-WY80AA



- Universal tap set



	P	M	K	N	S	H	O
WY80FC	●	●	●	●			

**Tool**



Designation	D <sub>N</sub>	Quantity	WY80FC
TC115-SET1-M3-M12-	M3	7	
	M4		
	M5		
	M6		
	M8		
	M10		
	M12		

Ordering example for the WY80FC grade: TC115-SET1-M3-M12-WY80FC

Please refer to the corresponding order pages for the tool dimensions and suitability for the intended application.

/ ★ New addition to the product range

# HSS-E tap set 2

## TC115 + DA110 Perform mm



- Universal tap set
- Incl. core-hole drill

≤  
3×DN

C=2-3

45°

32HRC  
1000  
-350  
N/mm²

**M**  
DIN 13

ISO2/6H

	P	M	K	N	S	H	O
WY80AA	●	●	●	●	●	●	●

### Tool



Designation	D <sub>N</sub>	Core hole dia. mm	Quantity	WY80AA
TC115-SET2-M3-M12-	M3	2,5	14	
	M4	3,3		
	M5	4,2		
	M6	5,0		
	M8	6,8		
	M10	8,5		
	M12	10,2		

Ordering example for the WY80AA grade: TC115-SET2-M3-M12-WY80AA



- Universal tap set
- Incl. core-hole drill

≤  
3×DN

C=2-3

45°

32HRC  
1000  
-350  
N/mm²

**M**  
DIN 13

ISO2/6H

	P	M	K	N	S	H	O
WY80FC	●	●	●	●	●	●	●

### Tool



Designation	D <sub>N</sub>	Core hole dia. mm	Quantity	WY80FC
TC115-SET2-M3-M12-	M3	2,5	14	
	M4	3,3		
	M5	4,2		
	M6	5,0		
	M8	6,8		
	M10	8,5		
	M12	10,2		

Ordering example for the WY80FC grade: TC115-SET2-M3-M12-WY80FC

Please refer to the corresponding order pages for the tool dimensions and suitability for the intended application.

**HSS-E machine taps**  
**TC216 Perform** mm



$\leq$   
3xDN

B=3,5-5

32HRC  
 1000  
-350  
N/mm<sup>2</sup>

- For long-chipping materials

**MF**  
DIN 13

ISO2/6H

	P	M	K	N	S	H	O
WY80AA							
WY80FC							

**DIN 374**

Designation	D <sub>N</sub>	P mm	l <sub>1</sub> mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> h9 mm	□ mm	l <sub>9</sub> mm	N	WY80AA	WY80FC
TC216-M8X1-L0-	MF 8x1	1	90	18	67	6	4,9	8	3		
TC216-M10X1-L0-	MF 10x1	1	90	20	67	7	5,5	8	3		
TC216-M10X1.25-L0-	MF 10x1.25	1,25	100	20	77	7	5,5	8	3		
TC216-M12X1.25-L0-	MF 12x1.25	1,25	100	21	73	9	7	10	4		
TC216-M12X1.5-L0-	MF 12x1.5	1,5	100	21	73	9	7	10	4		
TC216-M14X1.5-L0-	MF 14x1.5	1,5	100	21	71	11	9	12	4		
TC216-M16X1.5-L0-	MF 16x1.5	1,5	100	21	58	12	9	12	4		
TC216-M18X1.5-L0-	MF 18x1.5	1,5	110	24	66	14	11	14	4		

Ordering example for the WY80FC grade: TC216-M8X1-L0-WY80FC

# HSS-E machine taps

## TC115 Perform



– For long-chipping materials

$\leq 3 \times DN$

$C=2-3$

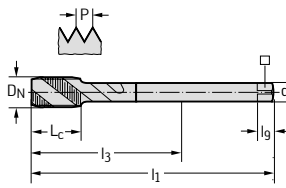
32HRC  
 1000-350  
 N/mm<sup>2</sup>

**MF**  
DIN 13

ISO2/6H

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

### DIN 374



Designation	DN	P mm	l <sub>1</sub> mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> h9 mm	□ mm	l <sub>g</sub> mm	N	WY80AA	WY80FC
TC115-M8X1-L0-	MF 8x1	1	90	12	67	6	4,9	8	3	●	●
TC115-M10X1-L0-	MF 10x1	1	90	12	67	7	5,5	8	3	●	●
TC115-M10X1.25-L0-	MF 10x1.25	1,25	100	15	77	7	5,5	8	3	●	●
TC115-M12X1.25-L0-	MF 12x1.25	1,25	100	13	73	9	7	10	4	●	●
TC115-M12X1.5-L0-	MF 12x1.5	1,5	100	13	73	9	7	10	4	●	●
TC115-M14X1.5-L0-	MF 14x1.5	1,5	100	15	71	11	9	12	4	●	●
TC115-M16X1.5-L0-	MF 16x1.5	1,5	100	15	58	12	9	12	4	●	●
TC115-M18X1.5-L0-	MF 18x1.5	1,5	110	17	66	14	11	14	4	●	●

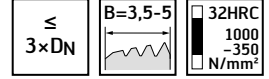
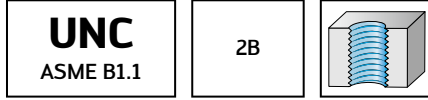
Ordering example for the WY80FC grade: TC115-M8X1-L0-WY80FC

C1

**HSS-E machine taps**  
**TC216 Perform** mm



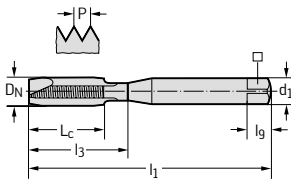
- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA	●	●	●	●			

C1

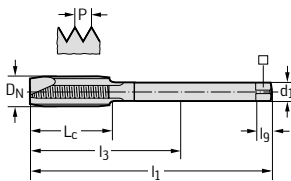
**DIN 371**



Designation	D <sub>N</sub> -P	D <sub>N</sub> mm	l <sub>1</sub> h9 mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> mm	□ mm	l <sub>9</sub> mm	N	WY80AA
TC216-UNC6-C0-	UNC 6-32	3,505	56	11	20	4	3	6	3	●
TC216-UNC8-C0-	UNC 8-32	4,166	63	12	21	4,5	3,4	6	3	●
TC216-UNC10-C0-	UNC 10-24	4,826	70	13	25	6	4,9	8	3	●
TC216-UNC1/4-C0-	UNC 1/4-20	6,35	80	15	30	7	5,5	8	3	●
TC216-UNC5/16-C0-	UNC 5/16-18	7,938	90	18	35	8	6,2	9	3	●
TC216-UNC3/8-C0-	UNC 3/8-16	9,525	100	20	39	10	8	11	3	●

Ordering example for the WY80AA grade: TC216-UNC6-C0-WY80AA

**DIN 376**



Designation	D <sub>N</sub> -P	D <sub>N</sub> mm	l <sub>1</sub> h9 mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> mm	□ mm	l <sub>9</sub> mm	N	WY80AA
TC216-UNC1/2-L0-	UNC 1/2-13	12,7	110	23	83	9	7	10	4	●
TC216-UNC5/8-L0-	UNC 5/8-11	15,875	110	25	68	12	9	12	4	●
TC216-UNC3/4-L0-	UNC 3/4-10	19,05	125	30	81	14	11	14	4	●

Ordering example for the WY80AA grade: TC216-UNC1/2-L0-WY80AA

# HSS-E machine taps

## TC115 Perform



- For long-chipping materials

**UNC**  
ASME B1.1

**2B**

$\leq 3 \times DN$

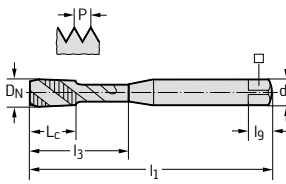
$C=2-3$

$45^\circ$

32HRC  
1000-350  
N/mm<sup>2</sup>

	P	M	K	N	S	H	O
WY80AA	●	●	●	●	●	●	●

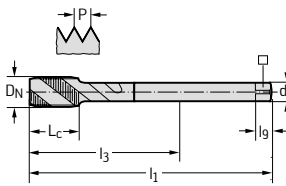
### DIN 371



Designation	D <sub>N</sub> -P	D <sub>N</sub> mm	l <sub>1</sub> mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> h <sub>9</sub> mm	□ mm	l <sub>9</sub> mm	N	WY80AA
TC115-UNC6-C0-	UNC 6-32	3,505	56	6,5	20	4	3	6	3	●
TC115-UNC8-C0-	UNC 8-32	4,166	63	7	21	4,5	3,4	6	3	●
TC115-UNC10-C0-	UNC 10-24	4,826	70	8	25	6	4,9	8	3	●
TC115-UNC1/4-C0-	UNC 1/4-20	6,35	80	10	30	7	5,5	8	3	●
TC115-UNC5/16-C0-	UNC 5/16-18	7,938	90	12	35	8	6,2	9	3	●
TC115-UNC3/8-C0-	UNC 3/8-16	9,525	100	15	39	10	8	11	3	●

Ordering example for the WY80AA grade: TC115-UNC6-C0-WY80AA

### DIN 376



Designation	D <sub>N</sub> -P	D <sub>N</sub> mm	l <sub>1</sub> mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> h <sub>9</sub> mm	□ mm	l <sub>9</sub> mm	N	WY80AA
TC115-UNC1/2-L0-	UNC 1/2-13	12,7	110	18	83	9	7	10	3	●
TC115-UNC5/8-L0-	UNC 5/8-11	15,875	110	20	68	12	9	12	3	●
TC115-UNC3/4-L0-	UNC 3/4-10	19,05	125	25	81	14	11	14	4	●

Ordering example for the WY80AA grade: TC115-UNC1/2-L0-WY80AA

WALTER SELECT

Best tool for

Good

Average

Poor

machining conditions

●● Primary application

● Other application

C1

**HSS-E machine taps**  
**TC216 Perform** mm



- For long-chipping materials

$\leq 3 \times D_N$

$B=3.5-5$

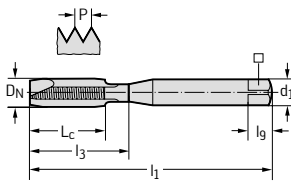
300HB  
100HB

**UNF**  
ASME B1.1

**2B**

	P	M	K	N	S	H	O
WY80AA	●	●	●	●			

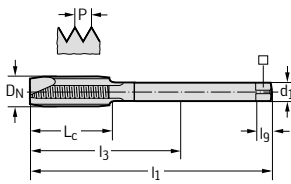
**DIN 371**



Designation	D <sub>N</sub> -P	D <sub>N</sub> mm	l <sub>1</sub> h9 mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> mm	□ mm	l <sub>9</sub> mm	N	WY80AA
TC216-UNF6-C0-	UNF 6-40	3.505	56	11		4	3	6	3	
TC216-UNF10-C0-	UNF 10-32	4.826	70	13		6	4.9	8	3	
TC216-UNF1/4-C0-	UNF 1/4-28	6.35	80	15		7	5.5	8	3	
TC216-UNF5/16-C0-	UNF 5/16-24	7.938	90	18		8	6.2	9	3	
TC216-UNF3/8-C0-	UNF 3/8-24	9.525	100	20		10	8	11	3	

Ordering example for the WY80AA grade: TC216-UNF6-C0-WY80AA

**DIN 376**



Designation	D <sub>N</sub> -P	D <sub>N</sub> mm	l <sub>1</sub> h9 mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> mm	□ mm	l <sub>9</sub> mm	N	WY80AA
TC216-UNF7/16-L0-	UNF 7/16-20	11.113	100	20	76	8	6.2	9	3	
TC216-UNF1/2-L0-	UNF 1/2-20	12.7	100	21	73	9	7	10	4	

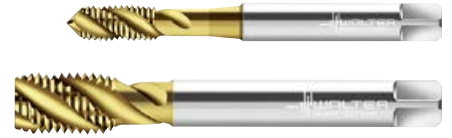
Ordering example for the WY80AA grade: TC216-UNF7/16-L0-WY80AA

C1

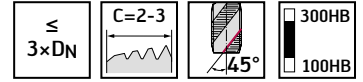
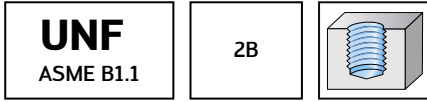


# HSS-E machine taps

## TC115 Perform

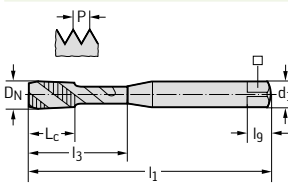


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA	●	●	●	●			

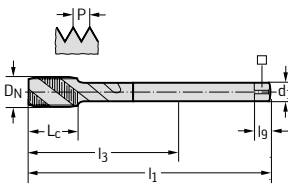
### DIN 371



Designation	D <sub>N</sub> -P	D <sub>N</sub> mm	l <sub>1</sub> mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> h9 mm	□ mm	l <sub>g</sub> mm	N	WY80AA
TC115-UNF6-C0-	UNF 6-40	3.505	56	6.5	20	4	3	6	3	
TC115-UNF10-C0-	UNF 10-32	4.826	70	8	25	6	4.9	8	3	
TC115-UNF1/4-C0-	UNF 1/4-28	6.35	80	10	30	7	5.5	8	3	
TC115-UNF5/16-C0-	UNF 5/16-24	7.938	90	12	35	8	6.2	9	3	
TC115-UNF3/8-C0-	UNF 3/8-24	9.525	100	15	39	10	8	11	3	

Ordering example for the WY80AA grade: TC115-UNF6-C0-WY80AA

### DIN 376



Designation	D <sub>N</sub> -P	D <sub>N</sub> mm	l <sub>1</sub> mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>1</sub> h9 mm	□ mm	l <sub>g</sub> mm	N	WY80AA
TC115-UNF7/16-L0-	UNF 7/16-20	11.113	100	15	76	8	6.2	9	3	
TC115-UNF1/2-L0-	UNF 1/2-20	12.7	100	13	73	9	7	10	4	

Ordering example for the WY80AA grade: TC115-UNF7/16-L0-WY80AA

C1

# Cutting data

## Thread tapping

The specified cutting data represents average standard values.  
For specific applications, adjustment is recommended.

Material group	Overview of the main material groups and code letters		Brinell hardness HB	Tensile strength R <sub>m</sub> N/mm <sup>2</sup>	Machining group <sup>1</sup>	HSS-E(-PM) taps					
						Coated					
						v <sub>c</sub> [m/min]					
1,5 × D <sub>N</sub>	2 × D <sub>N</sub>	2,5 × D <sub>N</sub>									
<b>P</b>	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	<b>E</b>	37	30	26	
		C > 0.25 to ≤ 0.55%	Annealed	190	640	P2	<b>E</b>	37	31	26	
		C > 0.25 to ≤ 0.55%	Heat-treated	210	710	P3	<b>E</b>	23	19	17	
		C > 0.55%	Annealed	190	640	P4	<b>E</b>	23	19	16	
		C > 0.55%	Heat-treated	300	1010	P5	<b>E</b>	14	12	10	
		Free-machining steel (short-chipping)	Annealed	220	750	P6	<b>E</b>	23	19	16	
	Low-alloy steel	Annealed		175	590	P7	<b>E</b>	37	30	26	
		Heat-treated		285	960	P8	<b>E</b>	12	10	9	
		Heat-treated		380	1280	P9	<b>E</b>	7	6	5	
		Heat-treated		430	1480	P10	<b>O</b>	5			
	High-alloy steel and high-alloy tool steel	Annealed		200	680	P11	<b>E</b>	23	19	16	
		Hardened and tempered		300	1010	P12	<b>E</b>	14	12	10	
		Hardened and tempered		380	1280	P13	<b>O</b>	7	6	5	
	Stainless steel	Ferritic/martensitic, annealed		200	680	P14	<b>E</b>	7	6	5	
		Martensitic, heat-treated		330	1110	P15	<b>E</b>	5	4	3	
<b>M</b>	Stainless steel	Austenitic, quench hardened		200	680	M1	<b>E</b>	8	7	6	
		Austenitic, precipitation hardened (PH)		300	1010	M2	<b>E</b>	5	4	3	
		Austenitic/ferritic, duplex		230	780	M3	<b>E</b>	6	5	4	
<b>K</b>	Malleable cast iron	Ferritic		200	400	K1	<b>E</b>	22	18	16	
		Pearlitic		260	700	K2	<b>E</b>	11	9	8	
	Grey cast iron	Low tensile strength		180	200	K3	<b>E</b>	44	36	32	
		High tensile strength/austenitic		245	350	K4	<b>E</b>	17	14	12	
	Cast iron with spheroidal graphite	Ferritic		155	400	K5	<b>E</b>	22	18	16	
		Pearlitic		265	700	K6	<b>E</b>	12	10	9	
	GGV (CGI)			230	400	K7	<b>E</b>	10	8	7	
<b>N</b>	Wrought aluminium alloys	Not hardenable		30	–	N1	<b>E</b>	8	7	6	
		Hardenable, hardened		100	340	N2	<b>E</b>	32	26	22	
	Cast aluminium alloys	≤ 12% Si, not hardenable		75	260	N3	<b>E</b>	22	18	16	
		≤ 12% Si, hardenable, hardened		90	310	N4	<b>E</b>	22	18	16	
		> 12% Si, not hardenable		130	450	N5	<b>E</b>	25	21	18	
	Magnesium-based alloys			70	250	N6	<b>O</b>	34	28	24	
	Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper		100	340	N7	<b>E</b>	14	12	10	
		Brass, bronze, red brass		90	310	N8	<b>E</b>	36	29	25	
		Cu alloys, short-chipping		110	380	N9	<b>E</b>	48	40	34	
		High tensile, Ampco		300	1010	N10	<b>E</b>				
<b>S</b>	Heat-resistant alloys	Fe-based	Annealed		200	680	S1	<b>E</b>			
			Hardened		280	940	S2	<b>E</b>	3		
		Ni- or Co-based	Annealed		250	840	S3	<b>E</b>			
			Hardened		350	1180	S4	<b>O</b>	3		
			Cast		320	1080	S5	<b>O</b>	3		
	Titanium alloys	Pure titanium		200	680	S6	<b>E</b>	8	7	6	
		α and β alloys, hardened		375	1260	S7	<b>O</b>	4	4		
		β alloys		410	1400	S8	<b>O</b>	4	4		
	Tungsten alloys			300	1010	S9	<b>O</b>	2	2		
	Molybdenum alloys			300	1010	S10	<b>O</b>	7	5		
<b>H</b>	Hardened steel	Hardened and tempered		50 HRC	–	H1	<b>O</b>				
		Hardened and tempered		55 HRC	–	H2	<b>O</b>				
		Hardened and tempered		60 HRC	–	H3	<b>O</b>				
	Hardened cast iron	Hardened and tempered		55 HRC	–	H4	<b>O</b>				
<b>O</b>	Thermoplastics	Without abrasive fillers				O1	<b>E</b>	22	18	15	
	Thermosets	Without abrasive fillers				O2	<b>E</b>	13	10	9	
	Plastic, glass-fibre reinforced	GFRP				O3	<b>E</b>	8	6	5	
	Plastic, carbon-fibre reinforced	CFRP				O4	<b>E</b>	8	6	5	
	Plastic, aramid-fibre reinforced	AFRP				O5	<b>E</b>	8	6	5	
	Graphite (technical)			80 Shore			O6	<b>E</b>	19	16	13

<sup>1</sup> The classification of the machining groups can be found from page B 1174 onwards in the Walter General Catalogue 2017.

<sup>3</sup> Water-miscible coolants must not be used when machining magnesium-based alloys.

\*For materials with a hardness of more than 63 HRC, reduce the cutting speed by 50–75%.



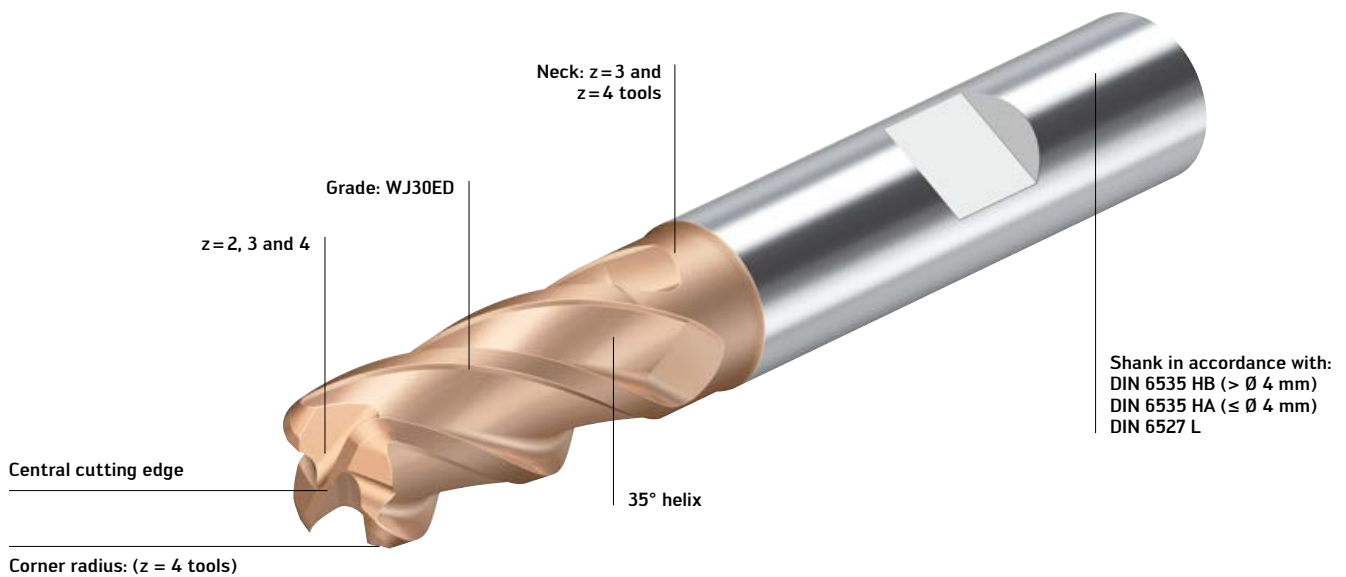
# Uniquely efficient – for universal use in ISO P, M and K.

## THE TOOLS

- Solid carbide milling cutters from the Perform line
- Metric and inch
- With and without reduced neck (z = 3 and z = 4 tools)
- With and without corner radius (z = 4 tools)
- 1 family; 126 dimensions
- With 2, 3 or 4 cutting edges
- Dia. 2–20 mm; 1/8–3/4"

## THE APPLICATION

- ISO material groups P, M and K
- Shoulder milling, full slotting, pocket milling, helical plunging, ramping
- Areas of use: General mechanical engineering, mould and die making, automotive and energy industries



Walter Prototyp MC232 Perform

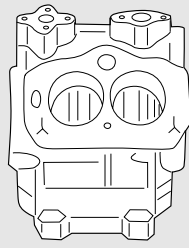
Fig.: MC232-12.0W4B200C-WJ30ED

## BENEFITS FOR YOU

- Can be used universally for diverse milling strategies with various different materials
- Wide range of applications thanks to tools with reduced neck and corner radii
- High level of cost-efficiency with universal use and medium cutting data
- Simple programme selection
- Low storage costs
- One range for machining almost all material groups

### APPLICATION EXAMPLE

#### Turbocharger



**Material:** ISO M;  
stainless steel 1.4848

**Tool:** MC232-10.0W4B-WJ30ED

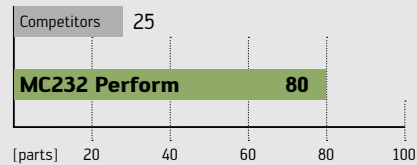
**Machining:** Plunging and  
shoulder milling

**Tensile strength:** HB 220

#### Cutting data:

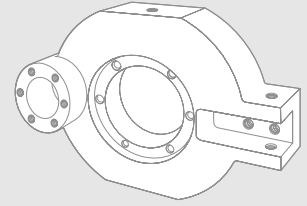
	Competitors	MC232 Perform
$\emptyset$	10 mm	10 mm
$z$	4	4
$a_e$	0.25 – 2 mm	0.25 – 2 mm
$a_p$	12 mm	12 mm
$v_c$	31 m/min	35 m/min
$f_z$	0.05 mm	0.08 mm
Tool life quantity	25 parts	80 parts

#### Comparison: Tool life quantity



### APPLICATION EXAMPLE

#### Component holder



**Material:** ISO P; C45

**Tool:** MC232-10.0W4B-WJ30ED

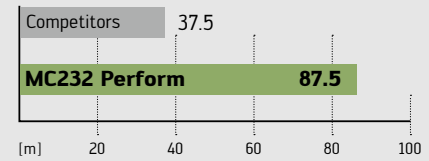
**Machining:** Shoulder milling

**Tensile strength:** Tensile strength  $R_m$   
680 N/mm<sup>2</sup>

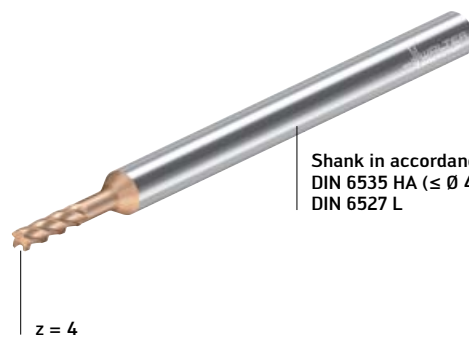
#### Cutting data:

	Competitors	MC232 Perform
$\emptyset$	10 mm	10 mm
$z$	4	4
$a_e$	2 mm	2 mm
$a_p$	10 mm	10 mm
$v_c$	285 m/min	285 m/min
$f_z$	0.096 mm	0.096 mm
Tool life	37.5 m	87.5 m

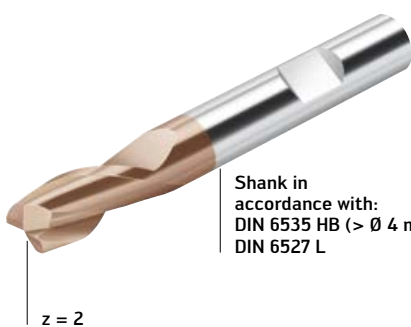
#### Comparison: Tool life



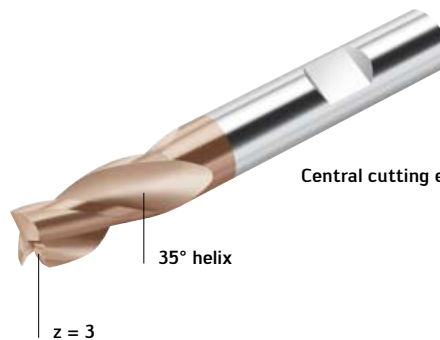
Shank in accordance with:  
DIN 6535 HA ( $\leq \emptyset 4$  mm)  
DIN 6527 L



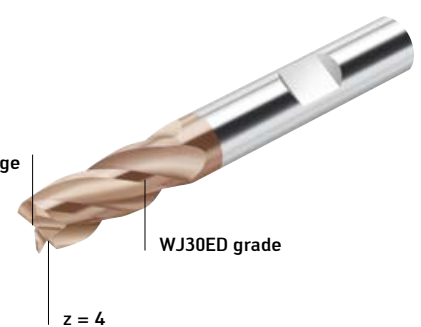
Shank in accordance with:  
DIN 6535 HA ( $\leq \emptyset 4$  mm)  
DIN 6527 L



Shank in accordance with:  
DIN 6535 HB ( $> \emptyset 4$  mm)  
DIN 6527 L



Central cutting edge



## Product range overview of solid carbide milling tools Shoulder/slot milling cutters – metric

Machining			
Helix angle	35°		
Designation	MC232 Perform		
Dia. range [mm]	2–20	2–20	2–20
Z	2	3	4
Corner radius [mm]	0	0	0,2–4
Page	63	64	66

D 1

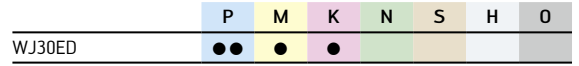
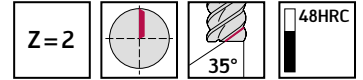
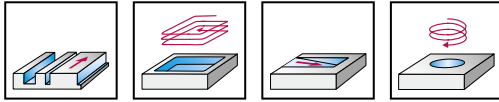
## Shoulder/slot milling cutters – inch

Machining			
Helix angle	35°		
Designation	MC232 Perform		
Diameter range [inch]	1/8–3/4	1/8–3/4	1/8–3/4
Z	2	3	4
Corner radius [inch]	0	0	0.015–0.125
Page	63	65	67

# Solid carbide shoulder/slot milling cutters

MC232 Perform  /

MC232 Perform



DIN 6527 L		$D_c$ h12 mm	$L_c$ mm	$l_1$ mm	$l_4$ mm	$d_1$ h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A2B-	2	6	57	29	4	2	⊕
	MC232-02.5A2B-	2,5	7	57	29	4	2	⊕
	MC232-03.0A2B-	3	7	57	29	4	2	⊕
	MC232-03.5A2B-	3,5	7	57	29	4	2	⊕
	MC232-04.0A2B-	4	8	57	29	4	2	⊕
Shank DIN 6535 HB	MC232-05.0W2B-	5	10	57	21	6	2	⊕
	MC232-06.0W2B-	6	10	57	21	6	2	⊕
	MC232-08.0W2B-	8	16	63	27	8	2	⊕
	MC232-10.0W2B-	10	19	72	32	10	2	⊕
	MC232-12.0W2B-	12	22	83	38	12	2	⊕
	MC232-16.0W2B-	16	26	92	44	16	2	⊕
	MC232-20.0W2B-	20	32	104	54	20	2	⊕

Slot milling  $a_p \leq 0.5 \times D_c$   
 Shoulder milling  $a_e \leq 0.5 \times D_c$   
 Ordering example for the WJ30ED grade: MC232-02.0A2B-WJ30ED

STANDARD		$D_c$ h12 Inch/no.	$L_c$ inch	$l_1$ inch	$l_4$ inch	$d_1$ h6 inch	Z	WJ30ED
Shank DIN 6535 HA	MC232.3.18A2D-	1/8"	0,500	2,500	1,083	0,250	2	⊕
	MC232.6.35A2D-	1/4"	0,750	2,500	1,083	0,250	2	⊕
Shank DIN 6535 HB	MC232.9.53W2D-	3/8"	0,875	3,000	1,437	0,375	2	⊕
	MC232.12.7W2D-	1/2"	1,000	3,500	1,717	0,500	2	⊕
	MC232.15.9W2D-	5/8"	1,250	3,500	1,594	0,625	2	⊕
	MC232.19.1W2D-	3/4"	1,500	4,000	1,969	0,750	2	⊕

Slot milling  $a_p \leq 0.5 \times D_c$   
 Shoulder milling  $a_e \leq 0.5 \times D_c$   
 Ordering example for the WJ30ED grade: MC232.3.18A2D-WJ30ED

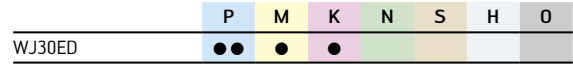
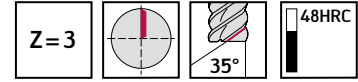
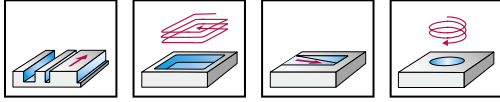
D 1

# Solid carbide shoulder/slot milling cutters

MC232 Perform



- Long reach



D 1

DIN 6527 L		D <sub>c</sub> h12 mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>2</sub> mm	l <sub>1</sub> mm	l <sub>4</sub> mm	d <sub>1</sub> h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A3BC-	2	6	11	1,9	57	29	4	3	☺
	MC232-02.5A3BC-	2,5	7	12	2,4	57	29	4	3	☺
	MC232-03.0A3BC-	3	7	12	2,9	57	29	4	3	☺
	MC232-03.5A3BC-	3,5	7	15	3,3	57	29	4	3	☺
	MC232-04.0A3BC-	4	8	15	3,8	57	29	4	3	☺
Shank DIN 6535 HB	MC232-05.0W3BC-	5	10	18	4,8	57	21	6	3	☺
	MC232-06.0W3BC-	6	10	19	5,7	57	21	6	3	☺
	MC232-08.0W3BC-	8	16	25	7,6	63	27	8	3	☺
	MC232-10.0W3BC-	10	19	30	9,5	72	32	10	3	☺
	MC232-12.0W3BC-	12	22	36	11,4	83	38	12	3	☺
	MC232-16.0W3BC-	16	26	42	15,2	92	44	16	3	☺
	MC232-20.0W3BC-	20	32	52	19	104	54	20	3	☺

Slot milling  $a_p \leq 0,5 \times D_c$   
 Shoulder milling  $a_e \leq 0,5 \times D_c$   
 Ordering example for the WJ30ED grade: MC232-02.0A3BC-WJ30ED

WALTER SELECT

Best tool for

☺  
Good

☹  
Average

☹  
Poor

machining conditions

•• Primary application

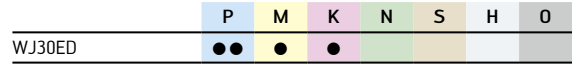
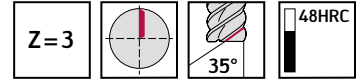
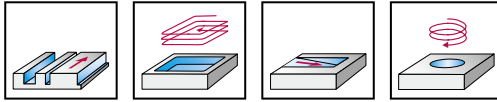
• Other application



# Solid carbide shoulder/slot milling cutters

MC232 Perform  /

MC232 Perform



DIN 6527 L		$D_c$ h12 mm	$L_c$ mm	$l_1$ mm	$l_4$ mm	$d_1$ h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A3B-	2	6	57	29	4	3	⊕
	MC232-02.5A3B-	2,5	7	57	29	4	3	⊕
	MC232-03.0A3B-	3	7	57	29	4	3	⊕
	MC232-03.5A3B-	3,5	7	57	29	4	3	⊕
	MC232-04.0A3B-	4	8	57	29	4	3	⊕
Shank DIN 6535 HB	MC232-05.0W3B-	5	10	57	21	6	3	⊕
	MC232-06.0W3B-	6	10	57	21	6	3	⊕
	MC232-08.0W3B-	8	16	63	27	8	3	⊕
	MC232-10.0W3B-	10	19	72	32	10	3	⊕
	MC232-12.0W3B-	12	22	83	38	12	3	⊕
	MC232-16.0W3B-	16	26	92	44	16	3	⊕
	MC232-20.0W3B-	20	32	104	54	20	3	⊕

Slot milling  $a_p \leq 0.5 \times D_c$   
 Shoulder milling  $a_e \leq 0.5 \times D_c$   
 Ordering example for the WJ30ED grade: MC232-02.0A3B-WJ30ED

STANDARD		$D_c$ h12 Inch/no.	$L_c$ inch	$l_1$ inch	$l_4$ inch	$d_1$ h6 inch	Z	WJ30ED
Shank DIN 6535 HA	MC232.3.18A3D-	1/8"	0,500	2,500	1,083	0,250	3	⊕
	MC232.6.35A3D-	1/4"	0,750	2,500	1,083	0,250	3	⊕
Shank DIN 6535 HB	MC232.9.53W3D-	3/8"	0,875	3,000	1,437	0,375	3	⊕
	MC232.12.7W3D-	1/2"	1,000	3,500	1,717	0,500	3	⊕
	MC232.15.9W3D-	5/8"	1,250	3,500	1,594	0,625	3	⊕
	MC232.19.1W3D-	3/4"	1,500	4,000	1,969	0,750	3	⊕

Slot milling  $a_p \leq 0.5 \times D_c$   
 Shoulder milling  $a_e \leq 0.5 \times D_c$   
 Ordering example for the WJ30ED grade: MC232.3.18A3D-WJ30ED

D 1

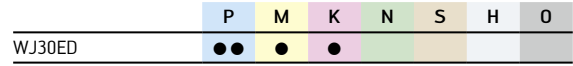
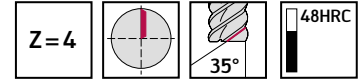
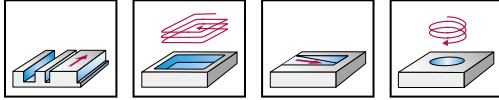
# Solid carbide shoulder/slot milling cutters

MC232 Perform  /

MC232 Perform



- Long reach



D 1

## DIN 6527 L

	Designation	D <sub>c</sub> h12 mm	R mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>2</sub> mm	l <sub>1</sub> mm	l <sub>4</sub> mm	d <sub>1</sub> h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A4B020C-	2	0,2	7	11	1,85	57	29	4	4	☺
	MC232-03.0A4B030C-	3	0,3	8	12	2,85	57	29	4	4	☺
	MC232-04.0A4B050C-	4	0,5	11	15	3,8	57	29	4	4	☺
Shank DIN 6535 HB	MC232-05.0W4B050C-	5	0,5	13	18	4,75	57	21	6	4	☺
	MC232-06.0W4B050C-	6	0,5	13	19	5,7	57	21	6	4	☺
	MC232-06.0W4B080C-	6	0,8	13	19	5,7	57	21	6	4	☺
	MC232-06.0W4B100C-	6	1	13	19	5,7	57	21	6	4	☺
	MC232-08.0W4B050C-	8	0,5	19	25	7,6	63	27	8	4	☺
	MC232-08.0W4B080C-	8	0,8	19	25	7,6	63	27	8	4	☺
	MC232-08.0W4B100C-	8	1	19	25	7,6	63	27	8	4	☺
	MC232-08.0W4B150C-	8	1,5	19	25	7,6	63	27	8	4	☺
	MC232-08.0W4B200C-	8	2	19	25	7,6	63	27	8	4	☺
	MC232-10.0W4B050C-	10	0,5	22	30	9,5	72	32	10	4	☺
	MC232-10.0W4B080C-	10	0,8	22	30	9,5	72	32	10	4	☺
	MC232-10.0W4B100C-	10	1	22	30	9,5	72	32	10	4	☺
	MC232-10.0W4B150C-	10	1,5	22	30	9,5	72	32	10	4	☺
	MC232-10.0W4B200C-	10	2	22	30	9,5	72	32	10	4	☺
	MC232-12.0W4B050C-	12	0,5	26	36	11,4	83	38	12	4	☺
	MC232-12.0W4B080C-	12	0,8	26	36	11,4	83	38	12	4	☺
	MC232-12.0W4B100C-	12	1	26	36	11,4	83	38	12	4	☺
	MC232-12.0W4B150C-	12	1,5	26	36	11,4	83	38	12	4	☺
	MC232-12.0W4B200C-	12	2	26	36	11,4	83	38	12	4	☺
	MC232-12.0W4B250C-	12	2,5	26	36	11,4	83	38	12	4	☺
	MC232-12.0W4B300C-	12	3	26	36	11,4	83	38	12	4	☺
	MC232-16.0W4B050C-	16	0,5	32	42	15,2	92	44	16	4	☺
	MC232-16.0W4B100C-	16	1	32	42	15,2	92	44	16	4	☺
	MC232-16.0W4B200C-	16	2	32	42	15,2	92	44	16	4	☺
	MC232-16.0W4B250C-	16	2,5	32	42	15,2	92	44	16	4	☺
	MC232-16.0W4B300C-	16	3	32	42	15,2	92	44	16	4	☺
	MC232-16.0W4B400C-	16	4	32	42	15,2	92	44	16	4	☺
MC232-20.0W4B050C-	20	0,5	38	52	19	104	54	20	4	☺	
MC232-20.0W4B100C-	20	1	38	52	19	104	54	20	4	☺	
MC232-20.0W4B200C-	20	2	38	52	19	104	54	20	4	☺	
MC232-20.0W4B250C-	20	2,5	38	52	19	104	54	20	4	☺	
MC232-20.0W4B300C-	20	3	38	52	19	104	54	20	4	☺	
MC232-20.0W4B400C-	20	4	38	52	19	104	54	20	4	☺	

Slot milling  $a_p \leq 0,5 \times D_c$   
Shoulder milling  $a_e \leq 0,5 \times D_c$

Ordering example for the WJ30ED grade: MC232-02.0A4B020C-WJ30ED

Continued

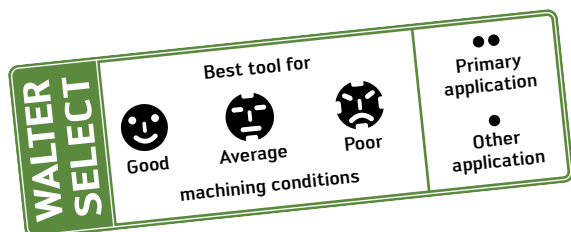
Continued

STANDARD		$D_c$ h12 Inch/no.	R inch	$L_c$ inch	$l_3$ inch	$d_2$ inch	$l_1$ inch	$l_4$ inch	$d_1$ h6 inch	Z	WJ30ED
Shank DIN 6535 HA	MC232.3.18A4D038C-	1/8"	0,015	0,500	0,625	0,119	2,500	1,083	0,250	4	☺
	MC232.6.35A4D038C-	1/4"	0,015	0,750	1,000	0,237	2,500	1,083	0,250	4	☺
	MC232.6.35A4D076C-	1/4"	0,030	0,750	1,000	0,237	2,500	1,083	0,250	4	☺
Shank DIN 6535 HB	MC232.9.53W4D038C-	3/8"	0,015	0,875	1,125	0,356	3,000	1,437	0,375	4	☺
	MC232.9.53W4D076C-	3/8"	0,030	0,875	1,125	0,356	3,000	1,437	0,375	4	☺
	MC232.12.7W4D038C-	1/2"	0,015	1,000	1,500	0,475	3,500	1,717	0,500	4	☺
	MC232.12.7W4D076C-	1/2"	0,030	1,000	1,500	0,475	3,500	1,717	0,500	4	☺
	MC232.12.7W4D152C-	1/2"	0,060	1,000	1,500	0,475	3,500	1,717	0,500	4	☺
	MC232.12.7W4D318C-	1/2"	0,125	1,000	1,500	0,475	3,500	1,717	0,500	4	☺
	MC232.15.9W4D318C-	5/8"	0,125	1,250	1,563	0,594	3,500	1,594	0,625	4	☺
	MC232.19.1W4D076C-	3/4"	0,030	1,500	1,875	0,713	4,000	1,969	0,750	4	☺
	MC232.19.1W4D318C-	3/4"	0,125	1,500	1,875	0,713	4,000	1,969	0,750	4	☺

Slot milling  $a_p \leq 0.5 \times D_c$

Shoulder milling  $a_e \leq 0.5 \times D_c$

Ordering example for the WJ30ED grade: MC232.3.18A4D038C-WJ30ED

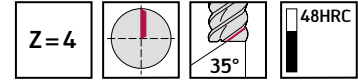
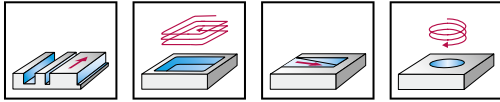


# Solid carbide shoulder/slot milling cutters

MC232 Perform



- Long reach



	P	M	K	N	S	H	O
WJ30ED	●	●	●				

## DIN 6527 L

	Designation	D <sub>c</sub> h12 mm	L <sub>c</sub> mm	l <sub>3</sub> mm	d <sub>2</sub> mm	l <sub>1</sub> mm	l <sub>4</sub> mm	d <sub>1</sub> h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A4BC-	2	7	11	1,9	57	29	4	4	●
	MC232-02.5A4BC-	2,5	8	12	2,4	57	29	4	4	●
	MC232-03.0A4BC-	3	8	12	2,9	57	29	4	4	●
	MC232-03.5A4BC-	3,5	10	15	3,3	57	29	4	4	●
	MC232-04.0A4BC-	4	11	15	3,8	57	29	4	4	●
Shank DIN 6535 HB	MC232-05.0W4BC-	5	13	18	4,8	57	21	6	4	●
	MC232-06.0W4BC-	6	13	19	5,7	57	21	6	4	●
	MC232-08.0W4BC-	8	19	25	7,6	63	27	8	4	●
	MC232-10.0W4BC-	10	22	30	9,5	72	32	10	4	●
	MC232-12.0W4BC-	12	26	36	11,4	83	38	12	4	●
	MC232-16.0W4BC-	16	32	42	15,2	92	44	16	4	●
	MC232-20.0W4BC-	20	38	52	19	104	54	20	4	●

Slot milling  $a_p \leq 0.5 \times D_c$   
Shoulder milling  $a_e \leq 0.5 \times D_c$   
Ordering example for the WJ30ED grade: MC232-02.0A4BC-WJ30ED

WALTER SELECT

Best tool for

Good

Average

Poor

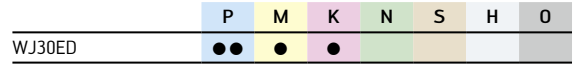
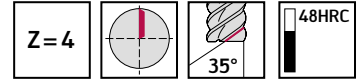
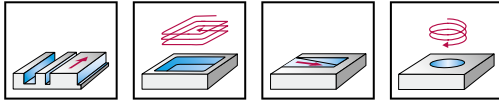
machining conditions

●● Primary application

● Other application

# Solid carbide shoulder/slot milling cutters

MC232 Perform  /  
 MC232 Perform



DIN 6527 L		$D_c$ h12 mm	$L_c$ mm	$l_1$ mm	$l_4$ mm	$d_1$ h6 mm	Z	WJ30ED
Shank DIN 6535 HA	MC232-02.0A4B-	2	7	57	29	4	4	
	MC232-02.5A4B-	2,5	8	57	29	4	4	
	MC232-03.0A4B-	3	8	57	29	4	4	
	MC232-03.5A4B-	3,5	10	57	29	4	4	
	MC232-04.0A4B-	4	11	57	29	4	4	
Shank DIN 6535 HB	MC232-05.0W4B-	5	13	57	21	6	4	
	MC232-06.0W4B-	6	13	57	21	6	4	
	MC232-08.0W4B-	8	19	63	27	8	4	
	MC232-10.0W4B-	10	22	72	32	10	4	
	MC232-12.0W4B-	12	26	83	38	12	4	
	MC232-16.0W4B-	16	32	92	44	16	4	
	MC232-20.0W4B-	20	38	104	54	20	4	

Slot milling  $a_p \leq 0.5 \times D_c$   
 Shoulder milling  $a_e \leq 0.5 \times D_c$   
 Ordering example for the WJ30ED grade: MC232-02.0A4B-WJ30ED

STANDARD		$D_c$ h12 Inch/no.	$L_c$ inch	$l_1$ inch	$l_4$ inch	$d_1$ h6 inch	Z	WJ30ED
Shank DIN 6535 HA	MC232.3.18A4D-	1/8"	0,500	2,500	1,083	0,250	4	
	MC232.6.35A4D-	1/4"	0,750	2,500	1,083	0,250	4	
Shank DIN 6535 HB	MC232.9.53W4D-	3/8"	0,875	3,000	1,437	0,375	4	
	MC232.12.7W4D-	1/2"	1,000	3,500	1,717	0,500	4	
	MC232.15.9W4D-	5/8"	1,250	3,500	1,594	0,625	4	
	MC232.19.1W4D-	3/4"	1,500	4,000	1,969	0,750	4	

Shoulder milling  $a_e \leq 0.5 \times D_c$   
 Slot milling  $a_p \leq 0.5 \times D_c$   
 Ordering example for the WJ30ED grade: MC232.3.18A4D-WJ30ED

D 1

# Cutting data for shoulder/slot milling cutters

						Product family		λ		
						MC232 Perform		35°		
Material group	Overview of the main material groups and code letters					Brinell hardness HB	Tensile strength R <sub>m</sub> N/mm <sup>2</sup>	Machining group <sup>1</sup>	Ø 2–20 mm / 1/8–3/4 Inch	
									z = 2–4	
									WJ30ED	
									Starting values for cutting speed v <sub>c</sub> [m/min]	
						a <sub>e</sub> / D <sub>c</sub>		VT <sup>2</sup>		
						1/1	1/2	1/10		
P	Non-alloyed steel	C ≤ 0.25%	Annealed	125	430	P1	89	111	158	A
		C > 0.25 to ≤ 0.55%	Annealed	190	640	P2	122	151	216	A
		C > 0.25 to ≤ 0.55%	Heat-treated	210	710	P3	104	130	185	A
		C > 0.55%	Annealed	190	640	P4	104	130	185	A
		C > 0.55%	Heat-treated	300	1010	P5	74	92	131	A
		Free-machining steel (short-chipping)	Annealed	220	750	P6	104	130	185	A
	Low-alloy steel	Annealed	175	590	P7	104	130	185	A	
		Heat-treated	285	960	P8	65	81	115	A	
		Heat-treated	380	1280	P9	61	76	108	A	
		Heat-treated	430	1480	P10	52	64	92	A	
	High-alloy steel and high-alloy tool steel	Annealed	200	680	P11	104	130	185	A	
		Hardened and tempered	300	1010	P12	77	92	131	A	
		Hardened and tempered	380	1280	P13	63	76	108	A	
	Stainless steel	Ferritic/martensitic, annealed	200	680	P14	44	55	79	A	
		Martensitic, heat-treated	330	1110	P15	31		52	A	
M	Stainless steel	Austenitic, quench hardened	200	680	M1	62	77	110	B	
		Austenitic, precipitation hardened (PH)	300	1010	M2	32	40	55	B	
		Austenitic/ferritic, duplex	230	780	M3	42	52	75	B	
K	Malleable cast iron	Ferritic	200	400	K1	120	149	213	A	
		Pearlitic	260	700	K2	94	117	167	A	
	Grey cast iron	Low tensile strength	180	200	K3	120	149	213	A	
		High tensile strength/austenitic	245	350	K4	101	125	179	A	
	Cast iron with spheroidal graphite	Ferritic	155	400	K5	120	149	213	A	
		Pearlitic	265	700	K6	94	117	167	A	
GGV (CGI)		230	400	K7	80	100	142	A		
N	Wrought aluminium alloys	Not hardenable	30	–	N1					
		Hardenable, hardened	100	340	N2					
	Cast aluminium alloys	≤ 12% Si, not hardenable	75	260	N3					
		≤ 12% Si, hardenable, hardened	90	310	N4					
		> 12% Si, not hardenable	130	450	N5					
	Magnesium-based alloys		70	250	N6					
		Copper and copper alloys (bronze/brass)	Unalloyed, electrolytic copper	100	340	N7				
Brass, bronze, red brass	90		310	N8						
Cu alloys, short-chipping	110		380	N9						
High tensile, Ampco	300		1010	N10						
S	Heat-resistant alloys	Fe-based	Annealed	200	680	S1				
			Hardened	280	940	S2				
		Ni- or Co-based	Annealed	250	840	S3				
			Hardened	350	1180	S4				
			Cast	320	1080	S5				
	Titanium alloys	Pure titanium	200	680	S6					
		α and β alloys, hardened	375	1260	S7					
		β alloys	410	1400	S8					
	Tungsten alloys		300	1010	S9					
	Molybdenum alloys		300	1010	S10					
H	Hardened steel	Hardened and tempered	50 HRC	–	H1					
		Hardened and tempered	55 HRC	–	H2					
		Hardened and tempered	60 HRC	–	H3					
	Hardened cast iron	Hardened and tempered	55 HRC	–	H4					
O	Thermoplastics	Without abrasive fillers			O1					
	Thermosets	Without abrasive fillers			O2					
	Plastic, glass-fibre reinforced	GFRP			O3					
	Plastic, carbon-fibre reinforced	CFRP			O4					
	Plastic, aramid-fibre reinforced	AFRP			O5					
	Graphite (technical)		80 Shore			O6				

<sup>1</sup> The classification of the machining groups can be found in the General Catalogue from page C671 onwards.

<sup>2</sup> The corresponding feed values can be found in the General Catalogue from page C256 onwards.

## Feed determination for milling

The specified cutting data represents average standard values.  
For specific applications, adjustment is recommended.

### A ISO P, ISO K material groups

a <sub>e</sub> [mm]*	Feed per tooth f <sub>z</sub> [mm]								
	Ø 2 mm	Ø 3 mm	Ø 4 mm	Ø 6 mm	Ø 8 mm	Ø 10 mm	Ø 12 mm	Ø 16 mm	Ø 20 mm
0,01	0,06	0,09	0,12	0,15	0,15	0,20			
0,05	0,04	0,07	0,10	0,12	0,15	0,20			
0,1	0,03	0,05	0,08	0,10	0,15	0,20	0,20	0,20	
0,2	0,03	0,04	0,06	0,08	0,15	0,18	0,20	0,20	0,25
0,5	0,02	0,03	0,05	0,07	0,12	0,15	0,15	0,15	0,25
1	0,02	0,03	0,04	0,06	0,09	0,12	0,12	0,12	0,20
2	0,02	0,03	0,03	0,05	0,08	0,11	0,12	0,12	0,20
3		0,02	0,02	0,04	0,07	0,10	0,12	0,12	0,18
5			0,02	0,04	0,07	0,10	0,12	0,12	0,15
6				0,03	0,06	0,08	0,10	0,12	0,15
8					0,05	0,07	0,09	0,12	0,15
10						0,06	0,08	0,12	0,14
12							0,07	0,11	0,14
14								0,10	0,13
16								0,09	0,12
18									0,11
20									0,10
25									
32									
40									
50									
63									
80									
100									
160									
200									

D 1

### B ISO M material groups

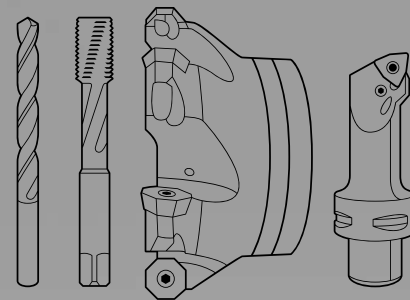
a <sub>e</sub> [mm]*	Feed per tooth f <sub>z</sub> [mm]								
	Ø 2 mm	Ø 3 mm	Ø 4 mm	Ø 6 mm	Ø 8 mm	Ø 10 mm	Ø 12 mm	Ø 16 mm	Ø 20 mm
0,01	0,05	0,07	0,10	0,12	0,12	0,16			
0,05	0,03	0,06	0,08	0,10	0,12	0,16			
0,1	0,03	0,04	0,06	0,08	0,12	0,16	0,16	0,16	
0,2	0,02	0,03	0,05	0,06	0,12	0,14	0,16	0,16	0,20
0,5	0,02	0,02	0,04	0,06	0,10	0,12	0,12	0,12	0,20
1	0,02	0,02	0,03	0,05	0,07	0,10	0,10	0,10	0,16
2	0,02	0,02	0,02	0,04	0,06	0,09	0,10	0,10	0,16
3		0,02	0,02	0,04	0,06	0,08	0,10	0,10	0,14
5			0,02	0,03	0,06	0,08	0,10	0,10	0,12
6				0,02	0,05	0,06	0,08	0,10	0,12
8					0,04	0,06	0,07	0,10	0,12
10						0,05	0,06	0,10	0,11
12							0,06	0,09	0,11
14								0,08	0,10
16								0,07	0,10
18									0,09
20									0,08
25									
32									
40									
50									
63									
80									
100									
160									
200									

\* Radial feed in mm

## Walter AG

Derendinger Straße 53, 72072 Tübingen  
Postfach 2049, 72010 Tübingen  
Germany

walter-tools.com



### Europe

#### Walter Austria GmbH

Wien, Österreich  
+43 1 5127300-0, service.at@walter-tools.com

#### Walter Benelux N.V./S.A.

Zaventem, Belgique  
(B) +32 (02) 7258500  
(NL) +31 (0) 900 26585-22  
service.benelux@walter-tools.com

#### Walter (Schweiz) AG

Solothurn, Schweiz  
+41 (0) 32 617 40 72, service.ch@walter-tools.com

#### Walter CZ s.r.o.

Kurim, Czech Republic  
+420 (0) 541 423352, service.cz@walter-tools.com

#### Walter Deutschland GmbH

Frankfurt, Deutschland  
+49 (0) 69 78902-100, service.de@walter-tools.com

#### Walter France

Soultz-sous-Forêts, France  
+33 (0) 3 88 80 20 00, service.fr@walter-tools.com

#### Walter Hungária Kft.

Budapest, Magyarország  
+36 1 464 7160, service.hu@walter-tools.com

#### Walter Tools Ibérica S.A.U.

El Prat de Llobregat, España  
+34 934 796760, service.iberica@walter-tools.com

#### Walter Italia s.r.l.

Via Volta, s.n.c., 22071 Cadorago - CO, Italia  
+39 031 926-111, service.it@walter-tools.com

#### Walter Norden AB

Halmstad, Sweden  
+46 (0) 35 16 53 00, service.norden@walter-tools.com

#### Walter Polska Sp. z o.o.

Warszawa, Polska  
+48 (0) 22 8520495, service.pl@walter-tools.com

#### Walter Tools SRL

Timisoara, România  
+40 (0) 256 406218, service.ro@walter-tools.com

#### ООО „Вальтер“

г. Санкт-Петербург  
+7 (812) 334 54 56, service.ru@walter-tools.com

#### Walter Tools d.o.o.

Maribor, Slovenija  
+386 (2) 629 01 30, service.si@walter-tools.com

#### Walter Slovakia, s.r.o.

Nitra, Slovakia  
+421 (0) 37 3260 910, service.sk@walter-tools.com

#### Walter Kesici Takımlar Sanayi ve Ticaret Ltd. Şti.

Istanbul, Türkiye  
+90 (0) 216 528 1900 Pbx, service.tr@walter-tools.com

#### Walter GB Ltd.

Bromsgrove, England  
+44 (1527) 839 450, service.uk@walter-tools.com

### Asia

#### Walter Wuxi Co. Ltd.

Wuxi, Jiangsu, P.R. China  
+86 (510) 853 72199, service.cn@walter-tools.com

#### Walter Wuxi Co. Ltd.

中国江苏省无锡市新区新畅南路 3 号  
电话: +86-510-8537 2199 邮编: 214028  
客服热线: 400 1510 510  
邮箱: service.cn@walter-tools.com

#### Walter Tools India Pvt. Ltd.

Pune, India  
+91 (20) 3045 7300, service.in@walter-tools.com

#### Walter Japan K.K.

Nagoya, Japan  
+81 (52) 533 6135, service.jp@walter-tools.com

#### ワルタージャパン株式会社

名古屋市南区名駅二丁目 45 番 7 号  
+81 (0) 52 533 6135, service.jp@walter-tools.com

#### Walter Korea Ltd.

Anyang-si Gyeonggi-do, Korea  
+82 (31) 337 6100, service.kr@walter-tools.com

#### 한국발터(주)

경기도 안양시 동안구 학의로 282  
금강팬테리움 106호 14056  
+82 (0) 31 337 6100, service.kr@walter-tools.com

#### Walter Malaysia Sdn. Bhd.

Selangor D.E., Malaysia  
+60(3)-5624 4265, service.my@walter-tools.com

#### Walter AG Singapore Pte. Ltd.

+65 6773 6180, service.sg@walter-tools.com

#### Walter (Thailand) Co., Ltd.

Bangkok, 10120, Thailand  
+66 2 687 0388, service.th@walter-tools.com

### America

#### Walter do Brasil Ltda.

Sorocaba – SP, Brasil  
+55 15 32245700, service.br@walter-tools.com

#### Walter Canada

Mississauga, Canada  
service.ca@walter-tools.com

#### Walter Tools S.A. de C.V.

El Marqués, Querétaro, México  
+52 (442) 478-3500, service.mx@walter-tools.com

#### Walter USA, LLC

Waukesha WI, USA  
+1 800-945-5554, service.us@walter-tools.com