

**SPECIAL PRICE**

**WIDIA-Hanita™ General Purpose End Mills**



2018 **PROMO**

## Buy 4, Get 1 FREE

**Buy 4 of the WIDIA-Hanita General Purpose End Mills and Get One of the Equal or Lesser Price for FREE.\***

\*Returns not permitted on promotional transactions.

**OFFER VALID:** January 1–June 30, 2018

The WIDIA-Hanita solid carbide end mill product lines have built a strong ongoing reputation of continuous development and diversification.



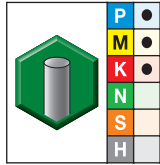
**DISTRIBUTED BY:**

**WIDIA™ HANITA™** 

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# WIDIA-Hanita™ End Mills • Series 4000/4001

- Centre cutting.
- Standard items listed. Additional styles and coatings made-to-order.



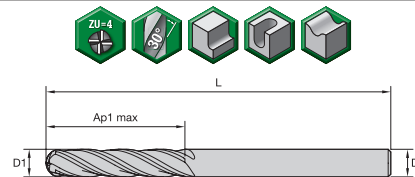
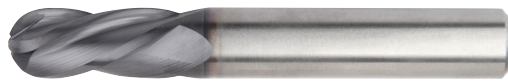
TiAlN

### End Mill Tolerances

D1	tolerance e8	D	tolerance h6 + / -
≤ 3	-0,014/-0,028	≤ 3	0/0,006
> 3-6	-0,020/-0,038	> 3-6	0/0,008
> 6-10	-0,025/-0,047	> 6-10	0/0,009
> 10-18	-0,032/-0,059	> 10-18	0/0,011
> 18-30	-0,040/-0,073	> 18-30	0/0,013

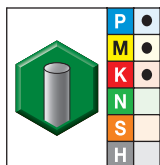
## 4000 • GP 4-Flute Ball Nose

WIDIA HANITA



order number	ISO	grade	D1	D	length of cut Ap1 max	length L	BCH	price	order number	ISO	grade	D1	D	length of cut Ap1 max	length L	BCH	price
5825573	40000600T016	TIALN	6	6	16,00	50	—		5825580	40001200T025	TIALN	12	12	25,00	75	—	
5825576	40000800T019	TIALN	8	8	19,00	63	—		5825585	40001600T032	TIALN	16	16	32,00	89	—	
5825578	40001000T022	TIALN	10	10	22,00	72	—										

- Centre cutting.
- Standard items listed. Additional styles and coatings made-to-order.



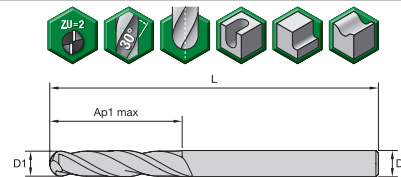
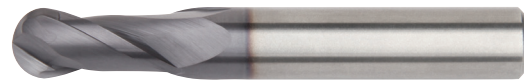
TiAlN

### End Mill Tolerances

D1	tolerance e8	D	tolerance h6 + / -
≤ 3	-0,014/-0,028	≤ 3	0/0,006
> 3-6	-0,020/-0,038	> 3-6	0/0,008
> 6-10	-0,025/-0,047	> 6-10	0/0,009
> 10-18	-0,032/-0,059	> 10-18	0/0,011
> 18-30	-0,040/-0,073	> 18-30	0/0,013

## 4001 • GP 2-Flute Ball Nose

WIDIA HANITA

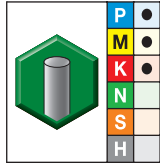


order number	ISO	grade	D1	D	length of cut Ap1 max	length L	BCH	price	order number	ISO	grade	D1	D	length of cut Ap1 max	length L	BCH	price
5880398	40010600T020	TIALN	6	6	20,00	63	—		5880407	40011200T025	TIALN	12	12	25,00	75	—	
5880401	40010800T020	TIALN	8	8	20,00	63	—		5880411	40011600T032	TIALN	16	16	32,00	89	—	
5880404	40011000T022	TIALN	10	10	22,00	76	—										

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# WIDIA-Hanita™ End Mills • Series 4002

- Centre cutting.
- Chamfered and sharp corners.
- Standard items listed. Additional styles and coatings made-to-order.



- first choice
- alternate choice

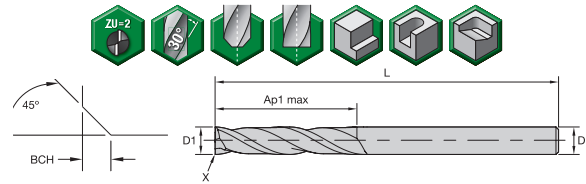
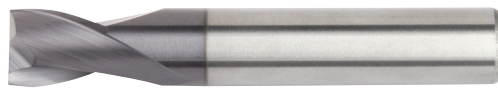
TiAlN

### End Mill Tolerances

D1	tolerance e8	D	tolerance h6 + / -
≤ 3	-0,014/-0,028	≤ 3	0/0,006
> 3-6	-0,020/-0,038	> 3-6	0/0,008
> 6-10	-0,025/-0,047	> 6-10	0/0,009
> 10-18	-0,032/-0,059	> 10-18	0/0,011
> 18-30	-0,040/-0,073	> 18-30	0/0,013



## Series 4002 • GP 2-Flute Radius

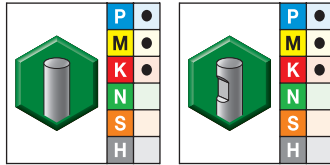


order number	ISO	grade	D1	D	length of cut Ap1 max	length L	BCH	price	order number	ISO	grade	D1	D	length of cut Ap1 max	length L	BCH	price
5873484	40020100T004	TIALN	1,0	3	4,00	38	—	—	5873507	40020800T028	TIALN	8,0	8	28,00	76	0,20	—
5873485	40020150T004	TIALN	1,5	3	4,00	38	—	—	6092639	40020800T028S	TIALN	8,0	8	28,00	76	—	—
5873486	40020180T004	TIALN	1,8	3	4,00	38	—	—	5873509	40020900T020	TIALN	9,0	9	20,00	63	0,20	—
5873487	40020200T006	TIALN	2,0	3	6,30	38	—	—	6092641	40020900T020S	TIALN	9,0	9	20,00	63	—	—
5873488	40020250T006	TIALN	2,5	3	6,30	38	—	—	5873510	40021000T022	TIALN	10,0	10	22,00	72	0,20	—
5873489	40020300T009	TIALN	3,0	3	9,50	38	—	—	6092643	40021000T022S	TIALN	10,0	10	22,00	72	—	—
5873490	40020300T019	TIALN	3,0	3	19,00	63	—	—	5873511	40021000T032	TIALN	10,0	10	32,00	89	0,20	—
5873492	40020350T012	TIALN	3,5	4	12,00	50	—	—	6092644	40021000T032S	TIALN	10,0	10	32,00	89	—	—
5873493	40020400T012	TIALN	4,0	4	12,00	50	0,10	—	5873513	40021100T025	TIALN	11,0	11	25,00	76	0,30	—
6092621	40020400T012S	TIALN	4,0	4	12,00	50	—	—	6092646	40021100T025S	TIALN	11,0	11	25,00	76	—	—
5873494	40020400T019	TIALN	4,0	4	19,00	63	0,10	—	5873514	40021200T025	TIALN	12,0	12	25,00	76	0,30	—
6092622	40020400T019S	TIALN	4,0	4	19,00	63	—	—	6092647	40021200T025S	TIALN	12,0	12	25,00	76	—	—
5873496	40020450T014	TIALN	4,5	6	14,00	50	0,10	—	5873515	40021200T045	TIALN	12,0	12	45,00	100	0,30	—
6092624	40020450T014S	TIALN	4,5	6	14,00	50	—	—	6092648	40021200T045S	TIALN	12,0	12	45,00	100	—	—
5873497	40020480T014	TIALN	4,8	6	14,00	50	0,10	—	5873517	40021400T032	TIALN	14,0	14	32,00	83	0,30	—
6092626	40020480T014S	TIALN	4,8	6	14,00	50	—	—	6092651	40021400T032S	TIALN	14,0	14	32,00	83	—	—
5873498	40020500T014	TIALN	5,0	5	14,00	50	0,10	—	5873518	40021400T050	TIALN	14,0	14	50,00	100	0,30	—
6092627	40020500T014S	TIALN	5,0	5	14,00	50	—	—	6092653	40021400T050S	TIALN	14,0	14	50,00	100	—	—
5873499	40020500T020	TIALN	5,0	5	20,00	63	0,10	—	5873520	40021600T032	TIALN	16,0	16	32,00	89	0,30	—
6092628	40020500T020S	TIALN	5,0	5	20,00	63	—	—	6092657	40021600T032S	TIALN	16,0	16	32,00	89	—	—
5873501	40020550T014	TIALN	5,5	6	14,00	50	0,10	—	5873531	40021600T056	TIALN	16,0	16	56,00	110	0,30	—
6092632	40020550T014S	TIALN	5,5	6	14,00	50	—	—	6092658	40021600T056S	TIALN	16,0	16	56,00	110	—	—
5873502	40020600T016	TIALN	6,0	6	16,00	50	0,10	—	5873533	40021800T038	TIALN	18,0	18	38,00	100	0,30	—
6092633	40020600T016S	TIALN	6,0	6	16,00	50	—	—	6092660	40021800T038S	TIALN	18,0	18	38,00	100	—	—
5873503	40020600T028	TIALN	6,0	6	28,00	76	0,10	—	5873534	40021800T060	TIALN	18,0	18	60,00	125	0,30	—
6092634	40020600T028S	TIALN	6,0	6	28,00	76	—	—	6092681	40021800T060S	TIALN	18,0	18	60,00	125	—	—
5873505	40020700T020	TIALN	7,0	7	20,00	63	0,10	—	5873536	40022000T038	TIALN	20,0	20	38,00	104	0,30	—
6092637	40020700T020S	TIALN	7,0	7	20,00	63	—	—	6092683	40022000T038S	TIALN	20,0	20	38,00	104	—	—
5873506	40020800T020	TIALN	8,0	8	20,00	63	0,20	—	5873537	40022000T056	TIALN	20,0	20	56,00	125	0,30	—
6092638	40020800T020S	TIALN	8,0	8	20,00	63	—	—	6092684	40022000T056S	TIALN	20,0	20	56,00	125	—	—

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# WIDIA-Hanita™ End Mills • Series 4003/4004

- Centre cutting.



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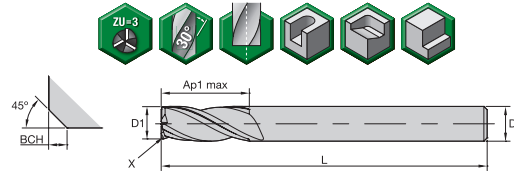
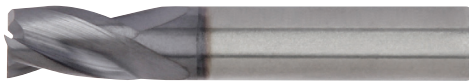
- first choice
- alternate choice

### End Mill Tolerances

D1	tolerance e8	D	tolerance h6 + / -
≤ 3	-0,014/-0,028	≤ 3	0/0,006
> 3-6	-0,020/-0,038	> 3-6	0/0,008
> 6-10	-0,025/-0,047	> 6-10	0/0,009
> 10-18	-0,032/-0,059	> 10-18	0/0,011
> 18-30	-0,040/-0,073	> 18-30	0/0,013

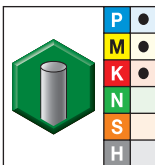


## Series 4003 • GP 3-Flute Radius



order number	ISO	grade	D1	D	length of cut Ap1 max	length L	BCH	price	order number	ISO	grade	D1	D	length of cut Ap1 max	length L	BCH	price
6144056	40030100T004S	TIALN	1	3	4,00	38	—		6145110	40030800T019	TIALN	8	8	19,00	63	0,20	
6144057	40030150T004S	TIALN	1	3	4,00	38	—		6144554	40030800T019S	TIALN	8	8	19,00	63	—	
6144058	40030200T006S	TIALN	2	3	6,30	38	—		6145171	40031000T022	TIALN	10	10	22,00	76	0,20	
6144059	40030250T006S	TIALN	2,5	3	6,30	38	—		6144555	40031000T022S	TIALN	10	10	22,00	76	—	
6144060	40030300T009S	TIALN	3	3	9,50	38	—		6145172	40031200T025	TIALN	12	12	25,00	75	0,30	
6145107	40030400T012	TIALN	4	4	12,00	50	0,10		6144556	40031200T025S	TIALN	12	12	25,00	75	—	
6144551	40030400T012S	TIALN	4	4	12,00	50	—		6145173	40031600T032	TIALN	16	16	32,00	89	0,30	
6144552	40030500T014S	TIALN	5	6	14,00	50	—		6144557	40031600T032S	TIALN	16	16	32,00	89	—	
6145109	40030600T016	TIALN	6	6	16,00	50	0,10										
6144553	40030600T016S	TIALN	6	6	16,00	50	—										

- Centre cutting.
- Chamfered and sharp corners.
- Standard items listed. Additional styles and coatings made-to-order.



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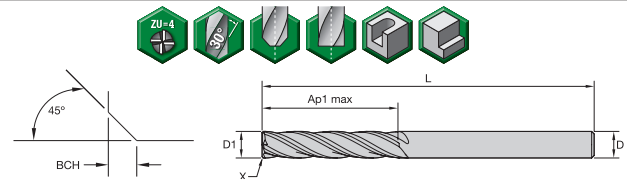
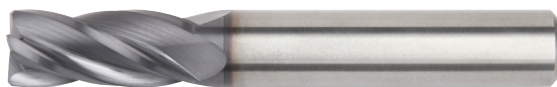
- first choice
- alternate choice

### End Mill Tolerances

D1	tolerance e8	D	tolerance h6 + / -
≤ 3	-0,014/-0,028	≤ 3	0/0,006
> 3-6	-0,020/-0,038	> 3-6	0/0,008
> 6-10	-0,025/-0,047	> 6-10	0/0,009
> 10-18	-0,032/-0,059	> 10-18	0/0,011
> 18-30	-0,040/-0,073	> 18-30	0/0,013



## Series 4004 • 4 Flutes • Straight Cylindrical Shank



order number	ISO	grade	D1	D	length of cut Ap1 max	length L	BCH	price	order number	ISO	grade	D1	D	length of cut Ap1 max	length L	BCH	price
5826016	40040100T004	TIALN	1	3	4,00	38	—		5826036	40040800T020	TIALN	8	8	20,00	50	0,20	
5826017	40040150T004	TIALN	1,5	3	4,00	38	—		6085588	40040800T020S	TIALN	8	8	20,00	50	—	
5826018	40040200T006	TIALN	2	3	6,30	38	—		5826039	40040900T020	TIALN	9	9	20,00	63	0,20	
5826019	40040250T006	TIALN	2,5	3	6,30	38	—		6085591	40040900T020S	TIALN	9	9	20,00	63	—	
5826020	40040300T009	TIALN	3	3	9,50	38	—		5826040	40041000T022	TIALN	10	10	22,00	72	0,20	
5826023	40040350T012	TIALN	3,5	4	12,00	50	—		6085592	40041000T022S	TIALN	10	10	22,00	72	—	
5826024	40040400T011	TIALN	4	4	11,00	50	0,10		5826043	40041200T025	TIALN	12	12	25,00	89	0,30	
6085576	40040400T011S	TIALN	4	4	11,00	50	—		6085595	40041200T025S	TIALN	12	12	25,00	89	—	
5826027	40040450T014	TIALN	4,5	5	14,00	50	0,10		5826046	40041400T032	TIALN	14	14	32,00	83	0,30	
6085579	40040450T014S	TIALN	4,5	5	14,00	50	—		6085598	40041400T032S	TIALN	14	14	32,00	83	—	
5826028	40040500T013	TIALN	5	5	13,00	50	0,10		5826061	40041600T032	TIALN	16	16	32,00	92	0,30	
6085580	40040500T013S	TIALN	5	5	13,00	50	—		6085601	40041600T032S	TIALN	16	16	32,00	92	—	
5826029	40040500T020	TIALN	5	5	20,00	63	0,10		5826064	40041800T038	TIALN	18	18	38,00	100	0,30	
6085581	40040500T020S	TIALN	5	5	20,00	63	—		6085604	40041800T038S	TIALN	18	18	38,00	100	—	
5826032	40040600T016	TIALN	6	6	16,00	50	0,10		5826067	40042000T038	TIALN	20	20	38,00	104	0,30	
6085584	40040600T016S	TIALN	6	6	16,00	50	—		6085607	40042000T038S	TIALN	20	20	38,00	104	—	
5826035	40040700T020	TIALN	7	8	20,00	63	0,10		5826082	40042000W038	TIALN	20	20	38,00	104	0,30	
6085587	40040700T020S	TIALN	7	8	20,00	63	—		6085511	40042000W038S	TIALN	20	20	38,00	104	—	

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