

**NEW**

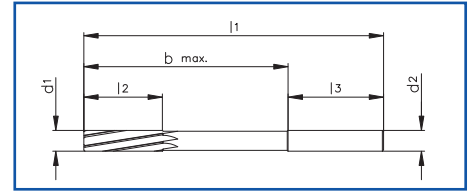
# NC-machine reamer

**DIN 8093-2****Catalog-No. NC6111****Solid carbide K10**

righthand cutting

straight shank with tol. h6 for NC-machine

spiral fluted

**up to Ø 13 mm solid carbide (monobloc)****from Ø 14 mm solid carbide head and steel shank**

spiral

nom-Ø H7	flute- length	max. friction length	total- length	shank-Ø h6	shank- length	number of teeth	weight each pc.
d <sub>1</sub> mm	l <sub>2</sub> mm	b <sub>max.</sub> mm	l <sub>1</sub> mm	d <sub>2</sub> mm	l <sub>3</sub> mm	z	ca. kg
1,0	6	22	50	3,0	28	3	0,001
1,1	9	22	50	3,0	28	3	0,001
1,2	9	22	50	3,0	28	3	0,001
1,4	9	22	50	3,0	28	3	0,001
1,5	9	22	50	3,0	28	3	0,001
1,6	10	22	50	3,0	28	3	0,001
1,8	11	22	50	3,0	28	4	0,002
2,0	12	22	50	3,0	28	4	0,002
2,2	12	22	50	3,0	28	4	0,002
2,5	16	32	60	3,0	28	4	0,003
2,8	17	37	65	4,0	28	6	0,004
3,0	17	37	65	4,0	28	6	0,005
3,2	18	37	65	4,0	28	6	0,006
3,5	18	47	75	4,0	28	6	0,008
4,0	19	47	75	4,0	28	6	0,012
4,5	21	44	80	6,0	36	6	0,020
5,0	23	57	93	6,0	36	6	0,021
5,5	26	57	93	6,0	36	6	0,025
6,0	26	57	93	6,0	36	6	0,033
6,5	28	65	101	6,0	36	6	0,040
7,0	31	73	109	8,0	36	6	0,051
7,5	31	73	109	8,0	36	6	0,065
8,0	33	81	117	8,0	36	6	0,071
8,5	33	81	117	8,0	36	6	0,085
9,0	36	85	125	10,0	40	6	0,090
9,5	36	85	125	10,0	40	6	0,095
10,0	38	93	133	10,0	40	6	0,095
10,5	38	93	133	10,0	40	6	0,098
11,0	41	102	142	10,0	40	6	0,100
11,5	41	102	142	10,0	40	6	0,103
12,0	44	106	151	12,0	45	6	0,105
13,0	44	106	151	12,0	45	8	0,120
14,0	47	112	160	16,0	48	8	0,160
15,0	50	114	162	16,0	48	8	0,210
16,0	52	122	170	16,0	48	8	0,215
17,0	52	127	175	18,0	48	8	0,320
18,0	52	134	182	18,0	48	8	0,380
19,0	52	139	189	20,0	50	8	0,460
20,0	52	145	195	20,0	50	8	0,500

**Order details:**

NC6111-xx.xx-B    xx.xx = nom.-Ø

**NEW**

# NC-machine reamer in steps of 0,01mm

Catalog-No. NC6199

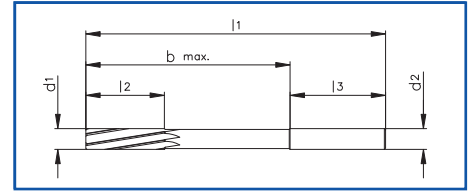
DIN 8093-2

**Solid carbide K10 (monobloc)**

righthand cutting

straight shank with tol. h6 for NC-machine

spiral fluted



Tolerance 0/+0,003



spiral

nom-Ø	flute-length	max. friction length	total-length	shank-Ø h6	shank-length	number of teeth
$d_1$ mm	$l_2$ mm	$b_{max.}$ mm	$l_1$ mm	$d_2$ mm	$l_3$ mm	$z$
0,90 - 1,06	6	22	50	3,0	28	3
1,07 - 1,50	9	22	50	3,0	28	3
1,51 - 1,70	10	22	50	3,0	28	3
1,71 - 1,90	11	22	50	3,0	28	4
1,91 - 2,12	12	22	50	3,0	28	4
2,13 - 2,36	12	22	50	3,0	28	4
2,37 - 2,65	16	32	60	3,0	28	4
2,66 - 2,79	17	37	65	4,0	28	4
2,80 - 3,00	17	37	65	4,0	28	6
3,01 - 3,35	18	37	65	4,0	28	6
3,36 - 3,75	18	47	75	4,0	28	6
3,76 - 4,25	19	47	75	4,0	28	6
4,26 - 4,75	21	44	80	6,0	36	6
4,76 - 5,30	23	57	93	6,0	36	6
5,31 - 6,00	26	57	93	6,0	36	6
6,01 - 6,70	28	65	101	6,0	36	6
6,71 - 7,50	31	73	109	8,0	36	6
7,51 - 8,50	33	81	117	8,0	36	6
8,51 - 9,50	36	85	125	10,0	40	6
9,51 - 10,60	38	93	133	10,0	40	6
10,61 - 11,80	41	102	142	10,0	40	6
11,81 - 12,25	44	106	151	12,0	45	6
12,26 - 13,20	44	106	151	12,0	45	8



### Order details

NC6199-xx.xx

xx.xx = nom.-Ø

**NEW**

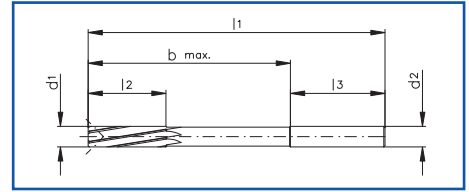
**NC-machine reamer**  
**Catalog-No. NC6111IK**

**DIN 8093-2**

**Solid carbide K10**  
 righthand cutting  
 straight shank with tol. h6 for NC-machine  
 spiral fluted

**with internal coolant supply (I.C.)**

- Coolant outlet at blade level (radial)
- Coolant outlet from the center(axial)



spiral

nom-Ø H7	flute- length	max. friction length	total- length	shank-Ø h6	shank- length	number of teeth	weight each pc.
d <sub>1</sub> mm	l <sub>2</sub> mm	b <sub>max.</sub> mm	l <sub>1</sub> mm	d <sub>2</sub> mm	l <sub>3</sub> mm	z	ca. kg
4,0	19	47	75	4,0	28	6	0,012
4,5	21	44	80	6,0	36	6	0,020
5,0	23	57	93	6,0	36	6	0,021
5,5	26	57	93	6,0	36	6	0,025
6,0	26	57	93	6,0	36	6	0,033
6,5	28	65	101	6,0	36	6	0,040
7,0	31	73	109	8,0	36	6	0,051
8,0	33	81	117	8,0	36	6	0,071
9,0	36	85	125	10,0	40	6	0,090
10,0	38	93	133	10,0	40	6	0,095
11,0	41	102	142	10,0	40	6	0,100
12,0	44	106	151	12,0	45	6	0,105
13,0	44	106	151	12,0	45	8	0,120
14,0	47	112	160	16,0	48	8	0,160
15,0	50	114	162	16,0	48	8	0,210
16,0	52	122	170	16,0	48	8	0,215
17,0	52	127	175	18,0	48	8	0,320
18,0	52	134	182	18,0	48	8	0,380
19,0	52	139	189	20,0	50	8	0,460
20,0	52	145	195	20,0	50	8	0,500

**up to Ø 13 mm solid carbide (monobloc)**  
**from Ø 14 mm solid carbide head and steel shank**



**Order details:**

NC6111IKS-xx.xx-B Coolant blades

NC6111IKZ-xx.xx-B Coolant center

xx.xx = nom.-Ø

**NEW**

# NC-machine reamer

**DIN 8093-2**

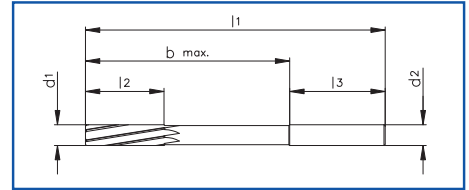
Catalog-No. NC6111T

Solid carbide K10 + TiAlN

righthand cutting

straight shank with tol. h6 for NC-machine

spiral fluted



up to Ø 13 mm solid carbide (monobloc)  
from Ø 14 mm solid carbide head and steel shank



spiral

nom-Ø H7	flute- length	max. friction length	total- length	shank-Ø h6	shank- length	number of teeth	weight each pc.
d <sub>1</sub> mm	l <sub>2</sub> mm	b <sub>max.</sub> mm	l <sub>1</sub> mm	d <sub>2</sub> mm	l <sub>3</sub> mm	z	ca. kg
1,0	6	22	50	3,0	28	3	0,001
1,1	9	22	50	3,0	28	3	0,001
1,2	9	22	50	3,0	28	3	0,001
1,4	9	22	50	3,0	28	3	0,001
1,5	9	22	50	3,0	28	3	0,001
1,6	10	22	50	3,0	28	3	0,001
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2,5	16	32	60	3,0	28	4	0,003
2,8	17	37	65	4,0	28	6	0,004
3,0	17	37	65	4,0	28	6	0,005
3,2	18	37	65	4,0	28	6	0,006
3,5	18	47	75	4,0	28	6	0,008
4,0	19	47	75	4,0	28	6	0,012
4,5	21	44	80	6,0	36	6	0,020
5,0	23	57	93	6,0	36	6	0,021
5,5	26	57	93	6,0	36	6	0,025
6,0	26	57	93	6,0	36	6	0,033
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9,5	36	85	125	10,0	40	6	0,095
10,0	38	93	133	10,0	40	6	0,095
10,5	38	93	133	10,0	40	6	0,098
11,0	41	102	142	10,0	40	6	0,100
11,5	41	102	142	10,0	40	6	0,103
12,0	44	106	151	12,0	45	6	0,105
13,0	44	106	151	12,0	45	8	0,120
14,0	47	112	160	16,0	48	8	0,160
15,0	50	114	162	16,0	48	8	0,210
16,0	52	122	170	16,0	48	8	0,215
17,0	52	127	175	18,0	48	8	0,320
18,0	52	134	182	18,0	48	8	0,380
19,0	52	139	189	20,0	50	8	0,460
20,0	52	145	195	20,0	50	8	0,500



**Order details:**

NC6111T-xx.xx-B      xx.xx = nom.-Ø