



2	Counterbores					
	N	NA	W	H	HA	WHV
	HSS	HSS	HSS	Carbide K40 micrograin	Carbide K10 micrograin	For carbide inserts
	Tol. p8	Tol. p8	Tol. p8	Tol. p8	Tol. p8	Tol. ± 0,1
Ø mm	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
16,0	2N-16,0	2NA-16,0	2W-16,0			
16,5	2N-16,5					
17,0	2N-17,0	2NA-17,0				
17,5	2N-17,5					
18,0	2N-18,0	2NA-18,0	2W-18,0	2H-18,0	2HA-18,0	
18,5	2N-18,5					
19,0	2N-19,0	2NA-19,0	2W-19,0			
19,5	2N-19,5	2NA-19,5				
20,0	2N-20,0	2NA-20,0	2W-20,0	2H-20,0	2HA-20,0	
20,5	2N-20,5					
21,0	2N-21,0	2NA-21,0		2H-21,0		
21,5	2N-21,5					
22,0	2N-22,0	2NA-22,0	2W-22,0	2H-22,0	2HA-22,0	
22,5	2N-22,5	2NA-22,5				
23,0	2N-23,0	2NA-23,0	2W-23,0	2H-23,0	2HA-23,0	
23,5	2N-23,5					
24,0	2N-24,0	2NA-24,0	2W-24,0	2H-24,0		
24,5	2N-24,5					
25,0	2N-25,0	2NA-25,0	2W-25,0	2H-25,0	2HA-25,0	
25,5	2N-25,5					
26,0	2N-26,0	2NA-26,0	2W-26,0	2H-26,0	2HA-26,0	
26,5	2N-26,5					
27,0	2N-27,0	2NA-27,0	2W-27,0	2H-27,0		
27,5	2N-27,5					
28,0	2N-28,0	2NA-28,0	2W-28,0	2H-28,0	2HA-28,0	
28,5	2N-28,5					
29,0	2N-29,0	2NA-29,0	2W-29,0	2H-29,0	2HA-29,0	
29,5	2N-29,5					
30,0	2N-30,0	2NA-30,0	2W-30,0	2H-30,0	2HA-30,0	
30,5	2N-30,5					
31,0	2N-31,0	2NA-31,0	2W-31,0	2H-31,0	2HA-31,0	
32,0	2N-32,0	2NA-32,0	2W-32,0	2H-32,0	2HA-32,0	
33,0	2N-33,0	2NA-33,0	2W-33,0	2H-33,0	2HA-33,0	
34,0	2N-34,0	2NA-34,0	2W-34,0	2H-34,0	2HA-34,0	2WHV-34,0
35,0	2N-35,0	2NA-35,0	2W-35,0	2H-35,0	2HA-35,0	2WHV-35,0
36,0	2N-36,0	2NA-36,0	2W-36,0	2H-36,0	2HA-36,0	2WHV-36,0
37,0	2N-37,0	2NA-37,0		2H-37,0	2HA-37,0	2WHV-37,0
38,0	2N-38,0	2NA-38,0	2W-38,0	2H-38,0	2HA-38,0	2WHV-38,0
39,0	2N-39,0	2NA-39,0		2H-39,0		2WHV-39,0
40,0	2N-40,0	2NA-40,0	2W-40,0	2H-40,0	2HA-40,0	2WHV-40,0
41,0	2N-41,0	2NA-41,0		2H-41,0		2WHV-41,0
42,0	2N-42,0	2NA-42,0		2H-42,0	2HA-42,0	2WHV-42,0
43,0	2N-43,0	2NA-43,0		2H-43,0		2WHV-43,0
44,0	2N-44,0	2NA-44,0		2H-44,0	2HA-44,0	2WHV-44,0
45,0	2N-45,0	2NA-45,0		2H-45,0	2HA-45,0	2WHV-45,0
46,0	2N-46,0	2NA-46,0		2H-46,0	2HA-46,0	2WHV-46,0
47,0	2N-47,0				2HA-47,0	2WHV-47,0
48,0	2N-48,0	2NA-48,0		2H-48,0	2HA-48,0	2WHV-48,0
48,0	2N-49,0	2NA-49,0				2WHV-49,0
50,0	2N-50,0*	2NA-50,0*		2H-50,0*	2HA-50,0*	2WHV-50,0**
51,0	2N-51,0*	2NA-51,0*				2WHV-51,0**
52,0	2N-52,0*	2NA-52,0*		2H-52,0*	2HA-52,0*	2WHV-52,0**
53,0	2N-53,0*	2NA-53,0*				2WHV-53,0**
54,0	2N-54,0*	2NA-54,0*				2WHV-54,0**
55,0	2N-55,0*	2NA-55,0*		2H-55,0*	2HA-55,0*	2WHV-55,0**
56,0	2N-56,0*	2NA-56,0*		2H-56,0*	2HA-56,0*	2WHV-56,0**
57,0	2N-57,0*	2NA-57,0*				
58,0	2N-58,0*	2NA-58,0*		2H-58,0*	2HA-58,0*	2WHV-58,0**
60,0	2N-60,0*	2NA-60,0*		2H-60,0*	2HA-60,0*	2WHV-60,0**
62,0	2N-62,0*	2NA-62,0*		2H-62,0*	2HA-62,0*	2WHV-62,0**
64,0	2N-64,0*	2NA-64,0*			2HA-64,0*	2WHV-64,0**
65,0	2N-65,0*	2NA-65,0*		2H-65,0*	2HA-65,0*	2WHV-65,0**
66,0	2N-66,0*	2NA-66,0*		2H-66,0*		
68,0		2NA-68,0*			2HA-68,0*	2WHV-68,0**
70,0	2N-70,0*	2NA-70,0*		2H-70,0*	2HA-70,0*	2WHV-70,0**
72,0	2N-72,0*	2NA-72,0*		2H-72,0*	2HA-72,0*	2WHV-72,0**
74,0		2NA-74,0*			2HA-74,0*	
75,0	2N-75,0*	2NA-75,0*		2H-75,0*	2HA-75,0*	2WHV-75,0**
76,0	2N-76,0*	2NA-76,0*				
78,0		2NA-78,0*				
80,0	2N-80,0*	2NA-80,0*				
82,0	2N-82,0*					
84,0		2NA-84,0*				
85,0	2N-85,0*	2NA-85,0*				

\* Use holders type M.  
\*\* Recommended minimum shank size MT3.