







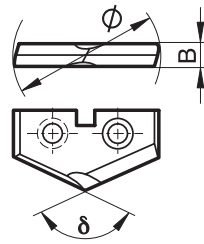


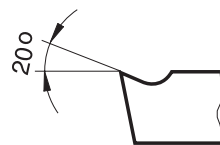
# STANDARD RANGE SOLID CARBIDE INTERCHANGEABLE INSERTS WITH FACET POINT GRIND

Tool material		Solid carbide	Solid carbide	Solid carbide	Solid carbide
Product no.		86701	86702	86708	86709
Surface finish		w/o margin	with margin	with margin	w/o margin
Surface finish		F	F	T	T
Dia-meter mm	Width mm				
10.00	2.5	●	●		
10.20	2.5	●	●	○	
10.50	2.5	●	●		○
11.00	2.5	○	●		○
11.11	2.5				○
11.20	2.5				○
11.50	2.5	●		●	
12.00	2.5	●	●		●
12.50	2.5	●	●		●
12.70	2.5				○
12.75	2.5	●	●		○
13.00	2.5	●	●	●	○
13.50	3.5	●	●	○	○
13.75	3.5	○	●		
14.00	3.5	●	●	●	●
14.10	3.5		●		
14.25	3.5	●			
14.50	3.5	●	●	○	●
14.75	3.5	○	○		●
15.00	3.5	●	●	●	○
15.50	3.5	●	●		
15.75	3.5	●			
15.88	3.5				○
16.00	3.5	●		●	
16.25	3.5		●		○
16.50	3.5	●	●	●	○
16.67	3.5				○
16.75	3.5	○	○	○	
17.00	3.5	●	●	●	●
17.50	3.5	●	●	●	●
17.75	3.5	○	●		○
18.00	3.5	●	●	●	
18.25	3.5	○	●		○
18.50	3.5	●	●	●	●
18.75	3.5		●		
19.00	4.0	●	●	●	●
19.50	4.0	●	●		●
19.75	4.0		●		○
20.00	4.0	●	●	●	●
20.50	4.0	●	●	●	○
20.64	4.0				○
21.00	4.0	●	●	●	●
21.50	4.0	●	●		○
22.00	4.0	●	●	●	●
22.30	4.0		●		
22.50	4.0			●	
22.75	4.0		●		
23.00	4.0	●	●	●	●
23.25	4.0				○
23.50	4.0			●	
24.00	4.0	●		●	
24.25	4.0		○		
24.50	4.0	●	●		●
24.75	4.0				○
25.00	4.0	●	●	●	●
26.00	5.0	●	●	●	○

Tool material		Solid carbide	Solid carbide	Solid carbide	Solid carbide
Product no.		86701	86702	86708	86709
Surface finish		w/o margin	with margin	with margin	w/o margin
Surface finish		F	F	T	T
Dia-meter mm	Width mm				
26.50	5.0		●		
27.00	5.0	●	●	○	○
28.00	5.0	●	●	●	●
29.00	5.0	●	●		
30.00	5.0	●	●	●	○
31.00	5.0	●		○	
32.00	5.0	●	●		
33.00	5.0	●	●		
34.00	5.0	●	●		
35.00	5.0	●	●		



$\leq \text{Ø } 25.4 = 135^\circ$
$> \text{Ø } 25.4 = 132^\circ$
$> \text{Ø } 66.0 = 140^\circ$







without margins  
for materials with a tensile strength up to approximately 600 N/mm<sup>2</sup>







with margins  
for materials with a tensile strength over approximately 600 N/mm<sup>2</sup>

**⚠ Please note:**  
Not mentioned intermediate diameters are available on request.

# STANDARD RANGE HSS-E-/PM HSS-E-INTERCHANGE-ABLE INSERTS WITH CHIP BREAKER GROOVES

Tool material		PM HSS-E	PM HSS-E
Product no.		86 602	86 608
Surface finish			
Dia-meter mm	Width mm		
10.00	2.5	●	●
10.20	2.5	●	●
10.50	2.5	●	○
11.00	2.5	●	○
11.75	2.5	●	●
12.00	2.5	●	●
12.25	2.5	○	○
12.30	2.5	○	○
12.40	2.5	○	○
12.50	2.5	●	○
12.75	2.5	●	○
13.00	2.5	●	●
13.25	2.5	●	○
13.50	3.5	●	●
13.75	3.5	●	○
14.00	3.5	●	●
14.25	3.5	●	●
14.50	3.5	●	●
14.75	3.5	●	○
15.00	3.5	●	●
15.25	3.5	○	○
15.30	3.5	●	○
15.50	3.5	●	●
15.75	3.5	●	○
16.00	3.5	●	●
16.50	3.5	●	●
16.75	3.5	●	○
17.00	3.5	●	●
17.25	3.5	●	○
17.50	3.5	●	●
17.75	3.5	●	○
18.00	3.5	●	●
18.25	3.5	●	●
18.50	3.5	●	●
18.75	3.5	●	●
19.00	4.0	●	●
19.50	4.0	●	○
19.75	4.0	●	●
20.00	4.0	●	●
20.25	4.0	●	○
20.50	4.0	●	●
21.00	4.0	●	●
21.25	4.0	●	○
21.50	4.0	●	○
21.75	4.0	●	○
22.00	4.0	●	●
22.50	4.0	●	●
23.00	4.0	●	●
23.50	4.0	●	●
24.00	4.0	●	●
24.50	4.0	●	●
24.75	4.0	○	○
25.00	4.0	●	●

Tool material		PM HSS-E
Product no.		86 609
Surface finish		
Dia-meter mm	Width mm	
25.00	5.0	●
25.50	5.0	●
26.00	5.0	●
26.50	5.0	●
27.00	5.0	●
28.00	5.0	●
29.00	5.0	●
29.50	5.0	●
30.00	5.0	●
31.00	5.0	●
32.00	5.0	●
33.00	5.0	●
34.00	5.0	●
35.00	5.0	●
36.00	7.0	●
37.00	7.0	●
38.00	7.0	●
39.00	7.0	●
40.00	7.0	●
41.00	7.0	●
42.00	7.0	●
43.00	7.0	●
44.00	7.0	●
45.00	7.0	●
46.00	7.0	●
47.00	7.0	●
48.00	7.0	●
49.00	7.0	●
50.00	7.0	●
51.00	7.0	●
52.00	7.0	●
53.00	7.0	●
54.00	7.0	●
55.00	7.0	●
56.00	7.0	●
57.00	7.0	●
58.00	7.0	●
59.00	7.0	●
60.00	7.0	●
62.00	7.0	●
64.00	7.0	●
65.00	7.0	●
68.00	9.0	●
70.00	9.0	●
74.00	9.0	●
75.00	9.0	●
80.00	9.0	●
82.00	9.0	●
84.00	9.0	●
85.00	9.0	●
88.00	9.0	●
90.00	9.0	●
100.00	9.0	●
102.00	9.0	●
103.00	9.0	○
105.00	9.0	○
110.00	9.0	○

Tool material		PM HSS-E
Product no.		86 609
Surface finish		
Dia-meter mm	Width mm	
115.00	9.0	○
120.00	9.0	○
125.00	9.0	○
130.00	9.0	○
135.00	9.0	○
140.00	9.0	○
145.00	9.0	○
150.00	9.0	○
155.00	9.0	○
160.00	9.0	○
165.00	9.0	○
170.00	9.0	○
175.00	9.0	○
180.00	9.0	○
185.00	9.0	○
190.00	9.0	○
195.00	9.0	○
200.00	9.0	○
205.00	9.0	○
210.00	9.0	○

\* intermediate sizes on request