

## Straight Flute HSS

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
8	0.5	3.7	6	50	8	8	図1
	0.6	3.7	6	50	8	8	
	0.7	3.7	6	50	8	8	
	0.8	3.7	6	50	8	8	
	0.9	3.7	6	50	8	8	
	1	3.7	6	50	8	8	
	1.1	3.7	6	50	8	8	
	1.2	3.7	6	50	8	8	
	1.3	3.7	6	50	8	8	
	1.4	3.7	6	50	8	8	
	1.5	3.7	6	50	8	8	
	1.6	3.7	6	50	8	8	
	1.7	3.7	6	50	8	8	
	1.8	3.7	6	50	8	8	
	1.9	3.7	6	50	8	8	
	2	3.7	6	50	8	8	
	2.1	3.7	6	50	8	8	
	2.2	3.7	6	50	8	8	
	2.3	3.7	6	50	8	8	
	2.4	3.7	6	50	8	8	
	2.5	3.7	6	50	8	8	
	2.6	3.7	6	50	8	8	
	2.7	3.7	6	50	8	8	
	2.8	3.7	6	50	8	8	
	2.9	3.7	6	50	8	8	
	3	3.7	6	50	8	8	
	3.5	3.7	6	50	8	8	
	4	3.7	6	50	8	8	
	4.5	3.7	6	50	8	8	
	5	3.7	6	50	8	8	
	6	3.7	6	50	8	8	
10	0.5	4.2	5.8	50	8	8	図1
	0.6	4.2	5.8	50	8	8	
	0.7	4.2	5.8	50	8	8	
	0.8	4.2	5.8	50	8	8	
	0.9	4.2	5.8	50	8	8	
	1	4.2	5.8	50	8	8	
	1.1	4.2	5.8	50	8	8	
	1.2	4.2	5.8	50	8	8	

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
10	1.3	4.2	5.8	50	8	8	図1
	1.4	4.2	5.8	50	8	8	
	1.5	4.2	5.8	50	8	8	
	1.6	4.2	5.8	50	8	8	
	1.7	4.2	5.8	50	8	8	
	1.8	4.2	5.8	50	8	8	
	1.9	4.2	5.8	50	8	8	
	2	4.2	5.8	50	8	8	
	2.1	4.2	5.8	50	8	8	
	2.2	4.2	5.8	50	8	8	
	2.3	4.2	5.8	50	8	8	
	2.4	4.2	5.8	50	8	8	
	2.5	4.2	5.8	50	8	8	
	2.6	4.2	5.8	50	8	8	
	2.7	4.2	5.8	50	8	8	
	2.8	4.2	5.8	50	8	8	
	2.9	4.2	5.8	50	8	8	
	3	4.2	5.8	50	8	8	
	3.5	4.2	5.8	50	8	8	
	4	4.2	5.8	50	8	8	
	4.5	4.2	5.8	50	8	8	
	5	4.2	5.8	50	8	8	
	6	4.2	5.8	50	8	8	
12	0.5	4.4	7	50	10	8	図1
	0.6	4.4	7	50	10	8	
	0.7	4.4	7	50	10	8	
	0.8	4.4	7	50	10	8	
	0.9	4.4	7	50	10	8	
	1	4.4	7	50	10	8	
	1.1	4.4	7	50	10	8	
	1.2	4.4	7	50	10	8	
	1.3	4.4	7	50	10	8	
	1.4	4.4	7	50	10	8	
	1.5	4.4	7	50	10	8	
	1.6	4.4	7	50	10	8	
	1.7	4.4	7	50	10	8	
	1.8	4.4	7	50	10	8	
	1.9	4.4	7	50	10	8	
	2	4.4	7	50	10	8	

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
12	2.1	4.4	7	50	10	8	
	2.2	4.4	7	50	10	8	
	2.3	4.4	7	50	10	8	
	2.4	4.4	7	50	10	8	
	2.5	4.4	7	50	10	8	
	2.6	4.4	7	50	10	8	
	2.7	4.4	7	50	10	8	
	2.8	4.4	7	50	10	8	
	2.9	4.4	7	50	10	8	
	3	4.4	7	50	10	8	
	3.5	4.4	7	50	10	8	
	4	4.4	7	50	10	8	
13	4.5	4.4	7	50	10	8	
	5	4.4	7	50	10	8	
	6	4.4	7	50	10	8	
	7	4.4	7	50	10	8	
	0.5	4.4	7	50	10	8	
	0.6	4.4	7	50	10	8	
	0.7	4.4	7	50	10	8	
	0.8	4.4	7	50	10	8	
	0.9	4.4	7	50	10	8	
	1	4.4	7	50	10	8	
	1.1	4.4	7	50	10	8	
	1.2	4.4	7	50	10	8	
	1.3	4.4	7	50	10	8	
	1.4	4.4	7	50	10	8	
	1.5	4.4	7	50	10	8	
	1.6	4.4	7	50	10	8	
	1.7	4.4	7	50	10	8	
	1.8	4.4	7	50	10	8	
	1.9	4.4	7	50	10	8	
	2	4.4	7	50	10	8	
	2.1	4.4	7	50	10	8	
	2.2	4.4	7	50	10	8	
	2.3	4.4	7	50	10	8	
	2.4	4.4	7	50	10	8	
	2.5	4.4	7	50	10	8	
	2.6	4.4	7	50	10	8	
	2.7	4.4	7	50	10	8	
	2.8	4.4	7	50	10	8	
	2.9	4.4	7	50	10	8	
	3	4.4	7	50	10	8	
	3.5	4.4	7	50	10	8	
	4	4.4	7	50	10	8	
	4.5	4.4	7	50	10	8	
	5	4.4	7	50	10	8	
	6	4.4	7	50	10	8	
	7	4.4	7	50	10	8	
	8	4.4	7	50	10	8	
14	0.5	4.7	7.8	50	10	8	
	0.6	4.7	7.8	50	10	8	
	0.7	4.7	7.8	50	10	8	
	0.8	4.7	7.8	50	10	8	
	0.9	4.7	7.8	50	10	8	
	1	4.7	7.8	50	10	8	
	1.1	4.7	7.8	50	10	8	
	1.2	4.7	7.8	50	10	8	
	1.3	4.7	7.8	50	10	8	
	1.4	4.7	7.8	50	10	8	
	1.5	4.7	7.8	50	10	8	
	1.6	4.7	7.8	50	10	8	
	1.7	4.7	7.8	50	10	8	
	1.8	4.7	7.8	50	10	8	
	1.9	4.7	7.8	50	10	8	
	2	4.7	7.8	50	10	8	
	2.1	4.7	7.8	50	10	8	
	2.2	4.7	7.8	50	10	8	
	2.3	4.7	7.8	50	10	8	
	2.4	4.7	7.8	50	10	8	
	2.5	4.7	7.8	50	10	8	
	2.6	4.7	7.8	50	10	8	
	2.7	4.7	7.8	50	10	8	
	2.8	4.7	7.8	50	10	8	
	2.9	4.7	7.8	50	10	8	
	3	4.7	7.8	50	10	8	
	3.5	4.7	7.8	50	10	8	
	4	4.7	7.8	50	10	8	
	4.5	4.7	7.8	50	10	8	
	5	4.7	7.8	50	10	8	
	6	4.7	7.8	50	10	8	
	7	4.7	7.8	50	10	8	
	8	4.7	7.8	50	10	8	

図1

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
14	2	4.7	7.8	50	10	8	
	2.1	4.7	7.8	50	10	8	
	2.2	4.7	7.8	50	10	8	
	2.3	4.7	7.8	50	10	8	
	2.4	4.7	7.8	50	10	8	
	2.5	4.7	7.8	50	10	8	
	2.6	4.7	7.8	50	10	8	
	2.7	4.7	7.8	50	10	8	
	2.8	4.7	7.8	50	10	8	
	2.9	4.7	7.8	50	10	8	
	3	4.7	7.8	50	10	8	
	3.5	4.7	7.8	50	10	8	
15	4	4.7	7.8	50	10	8	
	4.5	4.7	7.8	50	10	8	
	5	4.7	7.8	50	10	8	
	6	4.7	7.8	50	10	8	
	7	4.7	7.8	50	10	8	
	8	4.7	7.8	50	10	8	
	0.5	4.7	7.8	50	10	10	
	0.6	4.7	7.8	50	10	10	
	0.7	4.7	7.8	50	10	10	
	0.8	4.7	7.8	50	10	10	
	0.9	4.7	7.8	50	10	10	
	1	4.7	7.8	50	10	10	
	1.1	4.7	7.8	50	10	10	
	1.2	4.7	7.8	50	10	10	
	1.3	4.7	7.8	50	10	10	
	1.4	4.7	7.8	50	10	10	
	1.5	4.7	7.8	50	10	10	
	1.6	4.7	7.8	50	10	10	
	1.7	4.7	7.8	50	10	10	
	1.8	4.7	7.8	50	10	10	
	1.9	4.7	7.8	50	10	10	
	2	4.7	7.8	50	10	10	
	2.1	4.7	7.8	50	10	10	
	2.2	4.7	7.8	50	10	10	
	2.3	4.7	7.8	50	10	10	
	2.4	4.7	7.8	50	10	10	
	2.5	4.7	7.8	50	10	10	
	2.6	4.7	7.8	50	10	10	
	2.7	4.7	7.8	50	10	10	
	2.8	4.7	7.8	50	10	10	
	2.9	4.7	7.8	50	10	10	
	3	4.7	7.8	50	10	10	
	3.5	4.7	7.8	50	10	10	
	4	4.7	7.8	50	10	10	
	4.5	4.7	7.8	50	10	10	
	5	4.7	7.8	50	10	10	
	6	4.7	7.8	50	10	10	
	7	4.7	7.8	50	10	10	
	8	4.7	7.8	50	10	10	
	9	4.7	7.8	50	10	10	
	10	4.7	7.8	50	10	10	
16	0.5	5	8.8	60	12	10	
	0.6	5	8.8	60	12	10	
	0.7	5	8.8	60	12	10	
	0.8	5	8.8	60	12	10	
	0.9	5	8.8	60	12	10	
	1	5	8.8	60	12	10	
	1.1	5	8.8	60	12	10	
	1.2	5	8.8	60	12	10	
	1.3	5	8.8	60	12	10	
	1.4	5	8.8	60	12	10	
	1.5	5	8.8	60	12	10	
	1.6	5	8.8	60	12	10	

図1



# KC キーシードカッター

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
16	1.6	5	8.8	60	12	10	図1
	1.7	5	8.8	60	12	10	
	1.8	5	8.8	60	12	10	
	1.9	5	8.8	60	12	10	
	2	5	8.8	60	12	10	
	2.1	5	8.8	60	12	10	
	2.2	5	8.8	60	12	10	
	2.3	5	8.8	60	12	10	
	2.4	5	8.8	60	12	10	
	2.5	5	8.8	60	12	10	
	2.6	5	8.8	60	12	10	
	2.7	5	8.8	60	12	10	
	2.8	5	8.8	60	12	10	
	2.9	5	8.8	60	12	10	
	3	5	8.8	60	12	10	
	3.5	5	8.8	60	12	10	
	4	5	8.8	60	12	10	
	4.5	5	8.8	60	12	10	
	5	5	8.8	60	12	10	
	6	5	8.8	60	12	10	
	7	5	8.8	60	12	10	
	8	5	8.8	60	12	10	
	9	5	8.8	60	12	10	
	10	5	8.8	60	12	10	
	11	5	8.8	60	12	10	
	12	5	8.8	60	12	10	
18	0.5	7	9.6	60	12	12	図1
	0.6	7	9.6	60	12	12	
	0.7	7	9.6	60	12	12	
	0.8	7	9.6	60	12	12	
	0.9	7	9.6	60	12	12	
	1	7	9.6	60	12	12	
	1.1	7	9.6	60	12	12	
	1.2	7	9.6	60	12	12	
	1.3	7	9.6	60	12	12	
	1.4	7	9.6	60	12	12	
	1.5	7	9.6	60	12	12	
	1.6	7	9.6	60	12	12	
	1.7	7	9.6	60	12	12	
	1.8	7	9.6	60	12	12	
	1.9	7	9.6	60	12	12	
	2	7	9.6	60	12	12	
	2.1	7	9.6	60	12	12	
	2.2	7	9.6	60	12	12	
	2.3	7	9.6	60	12	12	
	2.4	7	9.6	60	12	12	
	2.5	7	9.6	60	12	12	
	2.6	7	9.6	60	12	12	
	2.7	7	9.6	60	12	12	
	2.8	7	9.6	60	12	12	
	2.9	7	9.6	60	12	12	
	3	7	9.6	60	12	12	
	3.5	7	9.6	60	12	12	
	4	7	9.6	60	12	12	
	4.5	7	9.6	60	12	12	
	5	7	9.6	60	12	12	
	6	7	9.6	60	12	12	
	7	7	9.6	60	12	12	
	8	7	9.6	60	12	12	
	9	7	9.6	60	12	12	
	10	7	9.6	60	12	12	
	11	7	9.6	60	12	12	
	12	7	9.6	60	12	12	
19	0.5	8	8.7	60	12	12	

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
19	0.6	8	8.7	60	12	12	図1
	0.7	8	8.7	60	12	12	
	0.8	8	8.7	60	12	12	
	0.9	8	8.7	60	12	12	
	1	8	8.7	60	12	12	
	1.1	8	8.7	60	12	12	
	1.2	8	8.7	60	12	12	
	1.3	8	8.7	60	12	12	
	1.4	8	8.7	60	12	12	
	1.5	8	8.7	60	12	12	
	1.6	8	8.7	60	12	12	
	1.7	8	8.7	60	12	12	
	1.8	8	8.7	60	12	12	
	1.9	8	8.7	60	12	12	
	2	8	8.7	60	12	12	
	2.1	8	8.7	60	12	12	
	2.2	8	8.7	60	12	12	
	2.3	8	8.7	60	12	12	
	2.4	8	8.7	60	12	12	
	2.5	8	8.7	60	12	12	
	2.6	8	8.7	60	12	12	
	2.7	8	8.7	60	12	12	
	2.8	8	8.7	60	12	12	
	2.9	8	8.7	60	12	12	
	3	8	8.7	60	12	12	
	3.5	8	8.7	60	12	12	
	4	8	8.7	60	12	12	
	4.5	8	8.7	60	12	12	
	5	8	8.7	60	12	12	
	6	8	8.7	60	12	12	
	7	8	8.7	60	12	12	
	8	8	8.7	60	12	12	
	9	8	8.7	60	12	12	
	10	8	8.7	60	12	12	
	11	8	8.7	60	12	12	
	12	8	8.7	60	12	12	
20	0.5	8	8.7	60	12	12	図1
	0.6	8	8.7	60	12	12	
	0.7	8	8.7	60	12	12	
	0.8	8	8.7	60	12	12	
	0.9	8	8.7	60	12	12	
	1	8	8.7	60	12	12	
	1.1	8	8.7	60	12	12	
	1.2	8	8.7	60	12	12	
	1.3	8	8.7	60	12	12	
	1.4	8	8.7	60	12	12	
	1.5	8	8.7	60	12	12	
	1.6	8	8.7	60	12	12	
	1.7	8	8.7	60	12	12	
	1.8	8	8.7	60	12	12	
	1.9	8	8.7	60	12	12	
	2	8	8.7	60	12	12	
	2.1	8	8.7	60	12	12	
	2.2	8	8.7	60	12	12	
	2.3	8	8.7	60	12	12	
	2.4	8	8.7	60	12	12	
	2.5	8	8.7	60	12	12	
	2.6	8	8.7	60	12	12	
	2.7	8	8.7	60	12	12	
	2.8	8	8.7	60	12	12	
	2.9	8	8.7	60	12	12	
	3	8	8.7	60	12	12	
	3.5	8	8.7	60	12	12	
	4	8	8.7	60	12	12	

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
20	4.5	8	8.7	60	12	12	図1
	5	8	8.7	60	12	12	
	6	8	8.7	60	12	12	
	7	8	8.7	60	12	12	
	8	8	8.7	60	12	12	
	9	8	8.7	60	12	12	
	10	8	8.7	60	12	12	
	11	8	8.7	60	12	12	
22	0.5	9	8.5	60	12	12	図1
	0.6	9	8.5	60	12	12	
	0.7	9	8.5	60	12	12	
	0.8	9	8.5	60	12	12	
	0.9	9	8.5	60	12	12	
	1	9	8.5	60	12	12	
	1.1	9	8.5	60	12	12	
	1.2	9	8.5	60	12	12	
	1.3	9	8.5	60	12	12	
	1.4	9	8.5	60	12	12	
	1.5	9	8.5	60	12	12	
	1.6	9	8.5	60	12	12	
	1.7	9	8.5	60	12	12	
	1.8	9	8.5	60	12	12	
	1.9	9	8.5	60	12	12	
	2	9	8.5	60	12	12	
	2.1	9	8.5	60	12	12	
	2.2	9	8.5	60	12	12	
	2.3	9	8.5	60	12	12	
	2.4	9	8.5	60	12	12	
	2.5	9	8.5	60	12	12	
	2.6	9	8.5	60	12	12	
	2.7	9	8.5	60	12	12	
	2.8	9	8.5	60	12	12	
	2.9	9	8.5	60	12	12	
	3	9	8.5	60	12	12	
	3.5	9	8.5	60	12	12	
24	4	9	8.5	60	12	12	図2
	4.5	9	8.5	60	12	12	
	5	9	8.5	60	12	12	
	6	9	8.5	60	12	12	
	7	9	8.5	60	12	12	
	8	9	8.5	60	12	12	
	9	9	8.5	60	12	12	
	10	9	8.5	60	12	12	
	11	9	8.5	60	12	12	
	12	9	8.5	60	12	12	
	0.5	10	12	65	12	14	
	0.6	10	12	65	12	14	
	0.7	10	12	65	12	14	
	0.8	10	12	65	12	14	
	0.9	10	12	65	12	14	
	1	10	12	65	12	14	
	1.1	10	12	65	12	14	
	1.2	10	12	65	12	14	
	1.3	10	12	65	12	14	
	1.4	10	12	65	12	14	
	1.5	10	12	65	12	14	
	1.6	10	12	65	12	14	
	1.7	10	12	65	12	14	
	1.8	10	12	65	12	14	
	1.9	10	12	65	12	14	
	2	10	12	65	12	14	
	2.1	10	12	65	12	14	
	2.2	10	12	65	12	14	

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
24	2.3	10	12	65	12	14	図2
	2.4	10	12	65	12	14	
	2.5	10	12	65	12	14	
	2.6	10	12	65	12	14	
	2.7	10	12	65	12	14	
	2.8	10	12	65	12	14	
	2.9	10	12	65	12	14	
	3	10	12	65	12	14	
	3.5	10	12	65	12	14	
	4	10	12	65	12	14	
	4.5	10	12	65	12	14	
	5	10	12	65	12	14	
	5.5	10	12	65	12	14	
	6	10	12	65	12	14	
	7	10	12	65	12	14	
	8	10	12	65	12	14	
	9	10	12	65	12	14	
	10	10	12	65	12	14	
	11	10	12	65	12	14	
	12	10	12	65	12	14	
	0.5	10	12	65	12	14	
	0.6	10	12	65	12	14	
	0.7	10	12	65	12	14	
	0.8	10	12	65	12	14	
	0.9	10	12	65	12	14	
	1	10	12	65	12	14	
	1.1	10	12	65	12	14	
	1.2	10	12	65	12	14	
	1.3	10	12	65	12	14	
	1.4	10	12	65	12	14	
	1.5	10	12	65	12	14	
	1.6	10	12	65	12	14	
	1.7	10	12	65	12	14	
	1.8	10	12	65	12	14	
	1.9	10	12	65	12	14	
	2	10	12	65	12	14	
	2.1	10	12	65	12	14	
	2.2	10	12	65	12	14	
	2.3	10	12	65	12	14	
	2.4	10	12	65	12	14	
	2.5	10	12	65	12	14	
	2.6	10	12	65	12	14	
	2.7	10	12	65	12	14	
	2.8	10	12	65	12	14	
	2.9	10	12	65	12	14	
	3	10	12	65	12	14	
	3.5	10	12	65	12	14	
	4	10	12	65	12	14	
	4.5	10	12	65	12	14	
	5	10	12	65	12	14	
	6	10	12	65	12	14	
	7	10	12	65	12	14	
	8	10	12	65	12	14	
	9	10	12	65	12	14	
	10	10	12	65	12	14	
	11	10	12	65	12	14	
	12	10	12	65	12	14	
25	0.5	10	12	65	12	14	図2
	0.6	10	12	65	12	14	
	0.7	10	12	65	12	14	
	0.8	10	12	65	12	14	
	0.9	10	12	65	12	14	
	1	10	12	65	12	14	
	1.1	10	12	65	12	14	
	1.2	10	12	65	12	14	
	1.3	10	12	65	12	14	
	1.4	10	12	65	12	14	
	1.5	10	12	65	12	14	
	1.6	10	12	65	12	14	
	1.7	10	12	65	12	14	
	1.8	10	12	65	12	14	
	1.9	10	12	65	12	14	
	2	10	12	65	12	14	
	2.1	10	12	65	12	14	
	2.2	10	12	65	12	14	
	2.3	10	12	65	12	14	
	2.4	10	12	65	12	14	
	2.5	10	12	65	12	14	
	2.6	10	12	65	12	14	
	2.7	10	12	65	12	14	
	2.8	10	12	65	12	14	
	2.9	10	12	65	12	14	
	3	10	12	65	12	14	
	3.5	10	12	65	12	14	
	4	10	12	65	12	14	
	4.5	10	12	65	12	14	
	5	10	12	65	12	14	
	6	10	12	65	12	14	
	7	10	12	65	12	14	
	8	10	12	65	12	14	
	9	10	12	65	12	14	
	10	10	12	65	12	14	
	11	10	12	65	12	14	
	12	10	12	65	12	14	
26	0.5	10	12	65	12	14	図2
	0.6	10	12	65	12	14	
	0.7	10	12	65	12	14	
	0.8	10	12	65	12	14	
	0.9	10	12	65	12	14	
	1	10	12	65	12	14	
	1.1	10	12	65	12	14	



刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
26	1.2	10	12	65	12	14	図2
	1.3	10	12	65	12	14	
	1.4	10	12	65	12	14	
	1.5	10	12	65	12	14	
	1.6	10	12	65	12	14	
	1.7	10	12	65	12	14	
	1.8	10	12	65	12	14	
	1.9	10	12	65	12	14	
	2	10	12	65	12	14	
	2.1	10	12	65	12	14	
	2.2	10	12	65	12	14	
	2.3	10	12	65	12	14	
	2.4	10	12	65	12	14	
	2.5	10	12	65	12	14	
	2.6	10	12	65	12	14	
	2.7	10	12	65	12	14	
	2.8	10	12	65	12	14	
	2.9	10	12	65	12	14	
	3	10	12	65	12	14	
	3.5	10	12	65	12	14	
	4	10	12	65	12	14	
	4.5	10	12	65	12	14	
	5	10	12	65	12	14	
	6	10	12	65	12	14	
	7	10	12	65	12	14	
	8	10	12	65	12	14	
	9	10	12	65	12	14	
	10	10	12	65	12	14	
	11	10	12	65	12	14	
	12	10	12	65	12	14	
28	0.5	10	24.5	65	12	14	図2
	0.6	10	24.4	65	12	14	
	0.7	10	24.3	65	12	14	
	0.8	10	24.2	65	12	14	
	0.9	10	24.1	65	12	14	
	1	10	24	65	12	14	
	1.1	10	23.9	65	12	14	
	1.2	10	23.8	65	12	14	
	1.3	10	23.7	65	12	14	
	1.4	10	23.6	65	12	14	
	1.5	10	23.5	65	12	14	
	1.6	10	23.4	65	12	14	
	1.7	10	23.3	65	12	14	
	1.8	10	23.2	65	12	14	
	1.9	10	23.1	65	12	14	
	2	10	23	65	12	14	
	2.1	10	22.9	65	12	14	
	2.2	10	22.8	65	12	14	
	2.3	10	22.7	65	12	14	
	2.4	10	22.6	65	12	14	
	2.5	10	22.5	65	12	14	
	2.6	10	22.4	65	12	14	
	2.7	10	22.3	65	12	14	
	2.8	10	22.2	65	12	14	
	2.9	10	22.1	65	12	14	
	3	10	22	65	12	14	
	3.5	10	21.5	65	12	14	
	4	10	21	65	12	14	
	4.5	10	20.5	65	12	14	
	5	10	20	65	12	14	
	6	10	19	65	12	14	
	7	10	18	65	12	14	
	8	10	17	65	12	14	
	9	10	16	65	12	14	

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
28	10	10	15	65	12	14	図2
	11	10	14	65	12	14	
	12	10	13	65	12	14	
	0.5	10	24.5	70	12	14	
	0.6	10	24.4	70	12	14	
	0.7	10	24.3	70	12	14	
	0.8	10	24.2	70	12	14	
	0.9	10	24.1	70	12	14	
	1	10	24	70	12	14	
	1.1	10	23.9	70	12	14	
	1.2	10	23.8	70	12	14	
	1.3	10	23.7	70	12	14	
	1.4	10	23.6	70	12	14	
	1.5	10	23.5	70	12	14	
	1.6	10	23.4	70	12	14	
	1.7	10	23.3	70	12	14	
30	1.8	10	23.2	70	12	14	図2
	1.9	10	23.1	70	12	14	
	2	10	23	70	12	14	
	2.1	10	22.9	70	12	14	
	2.2	10	22.8	70	12	14	
	2.3	10	22.7	70	12	14	
	2.4	10	22.6	70	12	14	
	2.5	10	22.5	70	12	14	
	2.6	10	22.4	70	12	14	
	2.7	10	22.3	70	12	14	
	2.8	10	22.2	70	12	14	
	2.9	10	22.1	70	12	14	
	3	10	22	70	12	14	
	3.5	10	21.5	70	12	14	
	4	10	21	70	12	14	
	4.5	10	20.5	70	12	14	
32	5	10	20	70	12	14	図2
	6	10	19	70	12	14	
	7	10	18	70	12	14	
	8	10	17	70	12	14	
	9	10	16	70	12	14	
	10	10	15	70	12	14	
	11	10	14	70	12	14	
	12	10	13	70	12	14	
	1	10	24	70	12	14	
	1.1	10	23.9	70	12	14	
	1.2	10	23.8	70	12	14	
	1.3	10	23.7	70	12	14	
	1.4	10	23.6	70	12	14	
	1.5	10	23.5	70	12	14	
	1.6	10	23.4	70	12	14	
	1.7	10	23.3	70	12	14	
32	1.8	10	23.2	70	12	14	図2
	1.9	10	23.1	70	12	14	
	2	10	23	70	12	14	
	2.1	10	22.9	70	12	14	
	2.2	10	22.8	70	12	14	
	2.3	10	22.7	70	12	14	
	2.4	10	22.6	70	12	14	
	2.5	10	22.5	70	12	14	
	2.6	10	22.4	70	12	14	
	2.7	10	22.3	70	12	14	
	2.8	10	22.2	70	12	14	
	2.9	10	22.1	70	12	14	
	3	10	22	70	12	14	
	3.5	10	21.5	70	12	14	
	4	10	21	70	12	14	
	4.5	10	20.5	70	12	14	

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
32	5	10	20	70	12	14	図2
	6	10	19	70	12	14	
	7	10	18	70	12	14	
	8	10	17	70	12	14	
	9	10	16	70	12	14	
	10	10	15	70	12	14	
	11	10	14	70	12	14	
	12	10	13	70	12	14	
	13	10	12	70	12	14	
	14	10	11	70	12	14	
	15	10	10	70	12	14	
35	1	10	24	75	12	16	
	1.1	10	23.9	75	12	16	
	1.2	10	23.8	75	12	16	
	1.3	10	23.7	75	12	16	
	1.4	10	23.6	75	12	16	
	1.5	10	23.5	75	12	16	
	1.6	10	23.4	75	12	16	
	1.7	10	23.3	75	12	16	
	1.8	10	23.2	75	12	16	
	1.9	10	23.1	75	12	16	
	2	10	23	75	12	16	
	2.1	10	22.9	75	12	16	
	2.2	10	22.8	75	12	16	
	2.3	10	22.7	75	12	16	
	2.4	10	22.6	75	12	16	
	2.5	10	22.5	75	12	16	
	2.6	10	22.4	75	12	16	
	2.7	10	22.3	75	12	16	
	2.8	10	22.2	75	12	16	
	2.9	10	22.1	75	12	16	
	3	10	22	75	12	16	
	3.5	10	21.5	75	12	16	
	4	10	21	75	12	16	
	4.5	10	20.5	75	12	16	
	5	10	20	75	12	16	
	6	10	19	75	12	16	
	7	10	18	75	12	16	
	8	10	17	75	12	16	
	9	10	16	75	12	16	
	10	10	15	75	12	16	
	11	10	14	75	12	16	
	12	10	13	75	12	16	
	13	10	12	75	12	16	
	14	10	11	75	12	16	
	15	10	10	75	12	16	
38	1	10	24	75	12	16	
	1.1	10	23.9	75	12	16	
	1.2	10	23.8	75	12	16	
	1.3	10	23.7	75	12	16	
	1.4	10	23.6	75	12	16	
	1.5	10	23.5	75	12	16	
	1.6	10	23.4	75	12	16	
	1.7	10	23.3	75	12	16	
	1.8	10	23.2	75	12	16	
	1.9	10	23.1	75	12	16	
	2	10	23	75	12	16	
	2.1	10	22.9	75	12	16	
	2.2	10	22.8	75	12	16	
	2.3	10	22.7	75	12	16	
	2.4	10	22.6	75	12	16	
	2.5	10	22.5	75	12	16	
	2.6	10	22.4	75	12	16	
	2.7	10	22.3	75	12	16	

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
38	2.8	10	22.2	75	12	16	図2
	2.9	10	22.1	75	12	16	
	3	10	22	75	12	16	
	3.5	10	21.5	75	12	16	
	4	10	21	75	12	16	
	4.5	10	20.5	75	12	16	
	5	10	20	75	12	16	
	6	10	19	75	12	16	
	7	10	18	75	12	16	
	8	10	17	75	12	16	
	9	10	16	75	12	16	
	10	10	15	75	12	16	
	11	10	14	75	12	16	
	12	10	13	75	12	16	
	13	10	12	75	12	16	
	14	10	11	75	12	16	
	15	10	10	75	12	16	
40	1	10	24	75	12	16	
	1.1	10	23.9	75	12	16	
	1.2	10	23.8	75	12	16	
	1.3	10	23.7	75	12	16	
	1.4	10	23.6	75	12	16	
	1.5	10	23.5	75	12	16	
	1.6	10	23.4	75	12	16	
	1.7	10	23.3	75	12	16	
	1.8	10	23.2	75	12	16	
	1.9	10	23.1	75	12	16	
	2	10	23	75	12	16	
	2.1	10	22.9	75	12	16	
	2.2	10	22.8	75	12	16	
	2.3	10	22.7	75	12	16	
	2.4	10	22.6	75	12	16	
	2.5	10	22.5	75	12	16	
	2.6	10	22.4	75	12	16	
	2.7	10	22.3	75	12	16	
	2.8	10	22.2	75	12	16	
	2.9	10	22.1	75	12	16	
	3	10	22	75	12	16	
	3.5	10	21.5	75	12	16	
	4	10	21	75	12	16	
	4.5	10	20.5	75	12	16	
	5	10	20	75	12	16	
	6	10	19	75	12	16	
	7	10	18	75	12	16	
	8	10	17	75	12	16	
	9	10	16	75	12	16	
	10	10	15	75	12	16	
	11	10	14	75	12	16	
	12	10	13	75	12	16	
	13	10	12	75	12	16	
	14	10	11	75	12	16	
	15	10	10	75	12	16	
42	1	10	24	75	12	16	
	1.1	10	23.9	75	12	16	
	1.2	10	23.8	75	12	16	
	1.3	10	23.7	75	12	16	
	1.4	10	23.6	75	12	16	
	1.5	10	23.5	75	12	16	
	1.6	10	23.4	75	12	16	
	1.7	10	23.3	75	12	16	
	1.8	10	23.2	75	12	16	
	1.9	10	23.1	75	12	16	
	2	10	23	75	12	16	
	2.1	10	22.9	75	12	16	



刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
42	2.2	10	22.8	75	12	16	図2
	2.3	10	22.7	75	12	16	
	2.4	10	22.6	75	12	16	
	2.5	10	22.5	75	12	16	
	2.6	10	22.4	75	12	16	
	2.7	10	22.3	75	12	16	
	2.8	10	22.2	75	12	16	
	2.9	10	22.1	75	12	16	
	3	10	22	75	12	16	
	3.5	10	21.5	75	12	16	
	4	10	21	75	12	16	
	4.5	10	20.5	75	12	16	
	5	10	20	75	12	16	
45	6	10	19	75	12	16	
	7	10	18	75	12	16	
	8	10	17	75	12	16	
	9	10	16	75	12	16	
	10	10	15	75	12	16	
	11	10	14	75	12	16	
	12	10	13	75	12	16	
	13	10	12	75	12	16	
	1	10	24	80	12	16	
	1.1	10	23.9	80	12	16	
	1.2	10	23.8	80	12	16	
	1.3	10	23.7	80	12	16	
	1.4	10	23.6	80	12	16	
48	1.5	10	23.5	80	12	16	
	1.6	10	23.4	80	12	16	
	1.7	10	23.3	80	12	16	
	1.8	10	23.2	80	12	16	
	1.9	10	23.1	80	12	16	
	2	10	23	80	12	16	
	2.1	10	22.9	80	12	16	
	2.2	10	22.8	80	12	16	
	2.3	10	22.7	80	12	16	
	2.4	10	22.6	80	12	16	
	2.5	10	22.5	80	12	16	
	2.6	10	22.4	80	12	16	
	2.7	10	22.3	80	12	16	
45	2.8	10	22.2	80	12	16	
	2.9	10	22.1	80	12	16	
	3	10	22	80	12	16	
	3.5	10	21.5	80	12	16	
	4	10	21	80	12	16	
	4.5	10	20.5	80	12	16	
	5	10	20	80	12	16	
	6	10	19	80	12	16	
	7	10	18	80	12	16	
	8	10	17	80	12	16	
	9	10	16	80	12	16	
	10	10	15	80	12	16	
	11	10	14	80	12	16	
48	12	10	13	80	12	16	
	13	10	12	80	12	16	
	14	10	11	80	12	16	
	15	10	10	80	12	16	
	16	10	9	80	12	16	
	1	14	24	80	16	16	
	1.1	14	23.9	80	16	16	
	1.2	14	23.8	80	16	16	
	1.3	14	23.7	80	16	16	
	1.4	14	23.6	80	16	16	
	1.5	14	23.5	80	16	16	
	1.6	14	23.4	80	16	16	

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
48	1.7	14	23.3	80	16	16	図2
	1.8	14	23.2	80	16	16	
	1.9	14	23.1	80	16	16	
	2	14	23	80	16	16	
	2.1	14	22.9	80	16	16	
	2.2	14	22.8	80	16	16	
	2.3	14	22.7	80	16	16	
	2.4	14	22.6	80	16	16	
	2.5	14	22.5	80	16	16	
	2.6	14	22.4	80	16	16	
	2.7	14	22.3	80	16	16	
	2.8	14	22.2	80	16	16	
	2.9	14	22.1	80	16	16	
50	3	14	22	80	16	16	
	3.5	14	21.5	80	16	16	
	4	14	21	80	16	16	
	4.5	14	20.5	80	16	16	
	5	14	20	80	16	16	
	6	14	19	80	16	16	
	7	14	18	80	16	16	
	8	14	17	80	16	16	
	9	14	16	80	16	16	
	10	14	15	80	16	16	
	11	14	14	80	16	16	
	12	14	13	80	16	16	
	13	14	12	80	16	16	
50	14	14	11	80	16	16	
	15	14	10	80	16	16	
	16	14	9	80	16	16	
	1	14	24	80	16	16	
	1.1	14	23.9	80	16	16	
	1.2	14	23.8	80	16	16	
	1.3	14	23.7	80	16	16	
	1.4	14	23.6	80	16	16	
	1.5	14	23.5	80	16	16	
	1.6	14	23.4	80	16	16	
	1.7	14	23.3	80	16	16	
	1.8	14	23.2	80	16	16	
	1.9	14	23.1	80	16	16	
50	2	14	23	80	16	16	
	2.1	14	22.9	80	16	16	
	2.2	14	22.8	80	16	16	
	2.3	14	22.7	80	16	16	
	2.4	14	22.6	80	16	16	
	2.5	14	22.5	80	16	16	
	2.6	14	22.4	80	16	16	
	2.7	14	22.3	80	16	16	
	2.8	14	22.2	80	16	16	
	2.9	14	22.1	80	16	16	
	3	14	22	80	16	16	
	3.5	14	21.5	80	16	16	
	4	14	21	80	16	16	
50	4.5	14	20.5	80	16	16	
	5	14	20	80	16	16	
	6	14	19	80	16	16	
	7	14	18	80	16	16	
	8	14	17	80	16	16	
	9	14	16	80	16	16	
	10	14	15	80	16	16	
	11	14	14	80	16	16	
	12	14	13	80	16	16	
	13	14	12	80	16	16	
	14	14	11	80	16	16	
	15	14	10	80	16	16	
	16	14	9	80	16	16	

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
55	1	14	24	80	16	16	図2
	1.2	14	23.8	80	16	16	
	1.5	14	23.5	80	16	16	
	2	14	23	80	16	16	
	2.5	14	22.5	80	16	16	
	3	14	22	80	16	16	
	3.5	14	21.5	80	16	16	
	4	14	21	80	16	16	
	4.5	14	20.5	80	16	16	
	5	14	20	80	16	16	
	6	14	19	80	16	16	
	7	14	18	80	16	16	
	8	14	17	80	16	16	
	9	14	16	80	16	16	
	10	14	15	80	16	16	
	11	14	14	80	16	16	
	12	14	13	80	16	16	
	13	14	12	80	16	16	
	14	14	11	80	16	16	
60	1	18	24	85	20	18	図2
	1.2	18	23.8	85	20	18	
	1.5	18	23.5	85	20	18	
	2	18	23	85	20	18	
	2.5	18	22.5	85	20	18	
	3	18	22	85	20	18	
	3.5	18	21.5	85	20	18	
	4	18	21	85	20	18	
	4.5	18	20.5	85	20	18	
	5	18	20	85	20	18	
	6	18	19	85	20	18	
	7	18	18	85	20	18	
	8	18	17	85	20	18	
	9	18	16	85	20	18	
	10	18	15	85	20	18	
	11	18	14	85	20	18	
	12	18	13	85	20	18	
	13	18	12	85	20	18	
	14	18	11	85	20	18	
	15	18	10	85	20	18	
	16	18	9	85	20	18	
65	1.5	18	28.5	90	20	18	図2
	2	18	28	90	20	18	
	2.5	18	27.5	90	20	18	
	3	18	27	90	20	18	
	3.5	18	26.5	90	20	18	
	4	18	26	90	20	18	
	4.5	18	25.5	90	20	18	
	5	18	25	90	20	18	

刃径 (ΦD)	刃厚 (ℓ1)	首径 (Φd1)	首長 (ℓ2)	全長 (L)	シャンク径 (Φd)	刃数 (N)	形状
Dia.	Cut Width	Neck Dia.	Neck Length	Overall Length	Shank Dia.	Number of Flutes	Shape
65	6	18	24	90	20	18	図2
	7	18	23	90	20	18	
	8	18	22	90	20	18	
	9	18	21	90	20	18	
	10	18	20	90	20	18	
	12	18	18	90	20	18	
70	1.5	18	33.5	100	20	20	図2
	2	18	33	100	20	20	
	2.5	18	32.5	100	20	20	
	3	18	32	100	20	20	
	3.5	18	31.5	100	20	20	
	4	18	31	100	20	20	
	4.5	18	30.5	100	20	20	
	5	18	30	100	20	20	
	6	18	29	100	20	20	
	7	18	28	100	20	20	
	8	18	27	100	20	20	
	9	18	26	100	20	20	
	10	18	25	100	20	20	
	12	18	23	100	20	20	
75	1.5	18	38.5	105	20	20	図2
	2	18	38	105	20	20	
	2.5	18	37.5	105	20	20	
	3	18	37	105	20	20	
	3.5	18	36.5	105	20	20	
	4	18	36	105	20	20	
	4.5	18	35.5	105	20	20	
	5	18	35	105	20	20	
	6	18	34	105	20	20	
	7	18	33	105	20	20	
	8	18	32	105	20	20	
	9	18	31	105	20	20	
	10	18	30	105	20	20	
	12	18	28	105	20	20	
80	1.5	23	38.5	115	25	22	図2
	2	23	38	115	25	22	
	2.5	23	37.5	115	25	22	
	3	23	37	115	25	22	
	3.5	23	36.5	115	25	22	
	4	23	36	115	25	22	
	4.5	23	35.5	115	25	22	
	5	23	35	115	25	22	
	6	23	34	115	25	22	
	7	23	33	115	25	22	
	8	23	32	115	25	22	
	9	23	31	115	25	22	
	10	23	30	115	25	22	
	12	23	28	115	25	22	