

High efficiency chip evacuation, for Steel and Difficult-to-cut materials, Unequally partitioned flute design

No. of Flutes: 5

5DEKM, 5DERM



Workpiece Materials ★ 1st choice

P ~30HRC
 P 30~40HRC
 M Stainless steel
 S Titanium Alloys
 S Heat-resistant Alloys
 K Cast Iron

TiAlN
 Land (DEKM)
 Radius R (DERM)
 ±0.05 mm R (DERM)
 h6 Shank Dia.
 38°

5DEKM (With corner land)

Shouldering Slotting
(Unit : mm)

Description	Std.	Outside Dia. øDc	Mill Dia. tolerance	Length of cut ℓ	Shank diameter øDs	Overall length L	No. of Flutes Z
5DEKM040-120-06	<input type="checkbox"/>	4	-0.020 -0.038	12	6	55	5
5DEKM050-130-06	<input type="checkbox"/>	5	-0.020 -0.038	13	6	57	5
5DEKM060-130-06	<input type="checkbox"/>	6	-0.020 -0.038	13	6	57	5
5DEKM080-160-08	<input type="checkbox"/>	8	-0.025 -0.047	16	8	63	5
5DEKM090-190-10	<input type="checkbox"/>	9	-0.025 -0.047	19	10	72	5
5DEKM100-220-10	<input type="checkbox"/>	10	-0.025 -0.047	22	10	72	5
5DEKM120-260-12	<input type="checkbox"/>	12	-0.032 -0.059	26	12	83	5
5DEKM160-320-16	<input type="checkbox"/>	16	-0.040 -0.073	32	16	92	5
5DEKM200-380-20	<input type="checkbox"/>	20	-0.040 -0.073	38	20	104	5
5DEKM250-450-25	<input type="checkbox"/>	25	-0.040 -0.073	45	25	121	5

5DERM (Radius)

Shouldering Slotting
(Unit : mm)

Description	Std.	Outside Dia. øDc	Mill Dia. tolerance	Length of cut ℓ	Shank diameter øDs	Overall length L	Spec of Corners	No. of Flutes Z
5DERM040-120-06-R025	<input type="checkbox"/>	4	-0.020 -0.038	12	6	55	R0.25	5
5DERM050-130-06-R025	<input type="checkbox"/>	5	-0.020 -0.038	13	6	57	R0.25	5
5DERM060-130-06-R040	<input type="checkbox"/>	6	-0.020 -0.038	13	6	57	R0.4	5
5DERM080-160-08-R050	<input type="checkbox"/>	8	-0.025 -0.047	16	8	63	R0.5	5
5DERM090-190-10-R050	<input type="checkbox"/>	9	-0.025 -0.047	19	10	72	R0.5	5
5DERM100-220-10-R050	<input type="checkbox"/>	10	-0.025 -0.047	22	10	72	R0.5	5
5DERM120-260-12-R075	<input type="checkbox"/>	12	-0.032 -0.059	26	12	83	R0.75	5
5DERM160-320-16-R075	<input type="checkbox"/>	16	-0.032 -0.059	32	16	92	R0.75	5
5DERM200-380-20-R075	<input type="checkbox"/>	20	-0.040 -0.073	38	20	104	R0.75	5
5DERM250-450-25-R075	<input type="checkbox"/>	25	-0.040 -0.073	45	25	121	R0.75	5

- 5 edged design enables high feed rate cutting. Variable pitch prevents vibration.
- 5DERM is suitable for 0.8Dc slotting.

Recommended Cutting Conditions ● L42

Steel and Difficult-to-cut materials, Finishing

4YFSM, 6YFSM



No. of Flutes: 4,6

Workpiece Materials ★ 1st choice

P ~30HRC
 P 30~40HRC
 M Stainless steel
 S Titanium Alloys
 S Heat-resistant Alloys
 K Cast Iron

TiAlN
 Sharp
 h6 Shank Dia.
 45°

4YFSM

Shouldering
(Unit : mm)

Description	Std.	Outside Dia. øDc	Mill Dia. tolerance	Length of cut ℓ	Shank diameter øDs	Overall length L	No. of Flutes Z
4YFSM040-130-06	<input type="checkbox"/>	4	-0.020 -0.038	13	6	50	4
4YFSM050-130-06	<input type="checkbox"/>	5	-0.020 -0.038	13	6	50	4

6YFSM

Shouldering
(Unit : mm)

Description	Std.	Outside Dia. øDc	Mill Dia. tolerance	Length of cut ℓ	Shank diameter øDs	Overall length L	No. of Flutes Z
6YFSM060-130-06	<input type="checkbox"/>	6	-0.020 -0.038	13	6	50	6
6YFSM080-190-08	<input type="checkbox"/>	8	-0.025 -0.047	19	8	63	6
6YFSM100-220-10	<input type="checkbox"/>	10	-0.025 -0.047	22	10	76	6
6YFSM120-260-12	<input type="checkbox"/>	12	-0.032 -0.059	26	12	76	6
6YFSM160-320-16	<input type="checkbox"/>	16	-0.032 -0.059	32	16	89	6
6YFSM200-380-20	<input type="checkbox"/>	20	-0.040 -0.073	38	20	104	6

- Multiple flutes type with excellent chip evacuation. (web thickness ratio: 60%) It has positive type rake angle and suitable for semi-finishing of difficult-to-cut materials such as stainless steel and inconel.

Recommended Cutting Conditions ● L43

: Check Availability

L



Solid End Mill

