

# SURFACE FINISH ORIENTED, 2 FLUTES, SHARP CORNER EDGE

## 2FESS, 2FESM, 2FESL



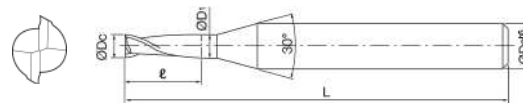
MEGACOAT is applied

Super Micro-Grain Carbide

No. of Flutes: 2

### Workpiece Materials

★: 1st Recommendation



## 2FESS (Short)

Shouldering Slotting

(Unit : mm)

Part Number	Stock	Outside Dia.	Mill Dia. tolerance	Length of cut	Neck Dia.	Shank Dia.	Overall length	No. of Flutes
		ØDc	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	$\ell$	ØD1	ØDs	L	Z
2FESS010-015-04	○	1.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	1.5	1.1	4	45	2
2FESS015-023-04	○	1.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	2.3	1.6	4	45	2
2FESS020-030-04	○	2.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	3.0	2.1	4	45	2
2FESS025-037-04	○	2.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	3.7	2.6	4	45	2
2FESS030-045-06	○	3.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	4.5	3.2	6	50	2
2FESS035-052-06	○	3.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	5.2	3.7	6	50	2
2FESS040-060-06	○	4.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	6.0	4.2	6	50	2
2FESS045-067-06	○	4.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	6.7	4.7	6	50	2
2FESS050-075-06	○	5.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	7.5	5.2	6	50	2
2FESS055-082-06	○	5.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	8.2	5.7	6	50	2
2FESS060-090-06	○	6.0	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	9.0	-	6	50	2
2FESS080-120-08	○	8.0	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	12.0	-	8	60	2
2FESS100-150-10	○	10.0	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	15.0	-	10	70	2
2FESS120-180-12	○	12.0	$\begin{matrix} -0.010 \\ -0.030 \end{matrix}$	18.0	-	12	75	2
2FESS140-210-16	○	14.0	$\begin{matrix} -0.010 \\ -0.030 \end{matrix}$	21.0	14.2	16	75	2
2FESS150-230-16	○	15.0	$\begin{matrix} -0.010 \\ -0.030 \end{matrix}$	23.0	15.2	16	90	2
2FESS160-240-16	○	16.0	$\begin{matrix} -0.010 \\ -0.030 \end{matrix}$	24.0	-	16	90	2

## 2FESM (Medium)

Shouldering Slotting

(Unit : mm)

Part Number	Stock	Outside Dia.	Mill Dia. tolerance	Length of cut	Neck Dia.	Shank Dia.	Overall length	No. of Flutes
		ØDc	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	$\ell$	ØD1	ØDs	L	Z
2FESM002-004-04	○	0.2	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	0.4	0.22	4	45	2
2FESM003-006-04	○	0.3	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	0.6	0.32	4	45	2
2FESM004-008-04	○	0.4	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	0.8	0.42	4	45	2
2FESM005-010-04	○	0.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	1.0	0.53	4	45	2
2FESM006-012-04	○	0.6	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	1.2	0.63	4	45	2
2FESM007-014-04	○	0.7	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	1.4	0.74	4	45	2
2FESM008-016-04	○	0.8	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	1.6	0.84	4	45	2
2FESM009-020-04	○	0.9	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	2.0	0.95	4	45	2
2FESM010-025-04	○	1.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	2.5	1.10	4	45	2
2FESM011-025-04	○	1.1	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	2.5	1.20	4	45	2
2FESM012-040-04	○	1.2	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	4.0	1.30	4	45	2
2FESM013-040-04	○	1.3	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	4.0	1.40	4	45	2
2FESM014-040-04	○	1.4	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	4.0	1.50	4	45	2
2FESM015-040-04	○	1.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	4.0	1.60	4	45	2
2FESM016-050-04	○	1.6	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	5.0	1.70	4	45	2
2FESM017-050-04	○	1.7	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	5.0	1.80	4	45	2
2FESM018-050-04	○	1.8	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	5.0	1.90	4	45	2
2FESM019-050-04	○	1.9	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	5.0	2.00	4	45	2
2FESM020-060-04	○	2.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	6.0	2.10	4	45	2
2FESM021-060-04	○	2.1	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	6.0	2.20	4	45	2
2FESM022-060-04	○	2.2	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	6.0	2.30	4	45	2
2FESM023-060-04	○	2.3	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	6.0	2.40	4	45	2
2FESM024-080-04	○	2.4	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	8.0	2.50	4	45	2
2FESM025-080-04	○	2.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	8.0	2.60	4	45	2
2FESM026-080-04	○	2.6	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	8.0	2.70	4	45	2
2FESM027-080-04	○	2.7	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	8.0	2.80	4	45	2
2FESM028-080-04	○	2.8	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	8.0	2.90	4	45	2
2FESM029-080-04	○	2.9	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	8.0	3.10	4	45	2
2FESM030-100-06	○	3.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	10.0	3.20	6	50	2
2FESM031-100-06	○	3.1	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	10.0	3.30	6	50	2
2FESM032-100-06	○	3.2	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	10.0	3.40	6	50	2
2FESM033-100-06	○	3.3	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	10.0	3.50	6	50	2

Sharp Cutting Edge Reduced Burrs

**Stainless Steel**

Block  
 · Vc=230 sfm  
 (n=2,230min<sup>-1</sup>)  
 · ap×ae=0.20"×0.04"  
 · fz=0.012 ipt  
 (Vf=5.3 ipm)

Shouldering

Upper workpiece area

2FESM100-220-10      Competitor Coated Carbide D

Recommended Cutting Conditions ➔ L12