

## 2FESM (Medium)

Shouldering

Slotting

(Unit : mm)

Description	Std.	Outside Dia.	Mill Dia. tolerance	Length of cut	Neck Dia.	Shank diameter	Overall length	No. of Flutes
		øDc	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	ℓ	øD1	øDs	L	Z
2FESM034-100-06	<input type="checkbox"/>	3.4	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	10.0	3.6	6	50	2
2FESM035-100-06	<input type="checkbox"/>	3.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	10.0	3.7	6	50	2
2FESM036-100-06	<input type="checkbox"/>	3.6	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	10.0	3.8	6	50	2
2FESM037-100-06	<input type="checkbox"/>	3.7	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	10.0	3.9	6	50	2
2FESM038-110-06	<input type="checkbox"/>	3.8	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	11.0	4.0	6	50	2
2FESM039-110-06	<input type="checkbox"/>	3.9	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	11.0	4.1	6	50	2
2FESM040-110-06	<input type="checkbox"/>	4.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	11.0	4.2	6	50	2
2FESM041-110-06	<input type="checkbox"/>	4.1	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	11.0	4.3	6	50	2
2FESM042-110-06	<input type="checkbox"/>	4.2	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	11.0	4.4	6	50	2
2FESM043-110-06	<input type="checkbox"/>	4.3	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	11.0	4.5	6	50	2
2FESM044-110-06	<input type="checkbox"/>	4.4	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	11.0	4.6	6	50	2
2FESM045-110-06	<input type="checkbox"/>	4.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	11.0	4.7	6	50	2
2FESM046-110-06	<input type="checkbox"/>	4.6	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	11.0	4.8	6	50	2
2FESM047-110-06	<input type="checkbox"/>	4.7	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	11.0	4.9	6	50	2
2FESM048-130-06	<input type="checkbox"/>	4.8	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	13.0	5.0	6	50	2
2FESM049-130-06	<input type="checkbox"/>	4.9	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	13.0	5.1	6	50	2
2FESM050-130-06	<input type="checkbox"/>	5.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	13.0	5.2	6	50	2
2FESM051-130-06	<input type="checkbox"/>	5.1	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	13.0	5.3	6	50	2
2FESM052-130-06	<input type="checkbox"/>	5.2	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	13.0	5.4	6	50	2
2FESM053-130-06	<input type="checkbox"/>	5.3	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	13.0	5.5	6	50	2
2FESM054-130-06	<input type="checkbox"/>	5.4	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	13.0	5.6	6	50	2
2FESM055-130-06	<input type="checkbox"/>	5.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	13.0	5.7	6	50	2
2FESM056-130-06	<input type="checkbox"/>	5.6	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	13.0	5.8	6	50	2
2FESM057-130-06	<input type="checkbox"/>	5.7	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	13.0	-	6	50	2
2FESM058-130-06	<input type="checkbox"/>	5.8	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	13.0	-	6	50	2
2FESM059-130-06	<input type="checkbox"/>	5.9	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	13.0	-	6	50	2
2FESM060-130-06	<input type="checkbox"/>	6.0	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	13.0	-	6	50	2
2FESM061-160-08	<input type="checkbox"/>	6.1	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	6.3	8	60	2
2FESM062-160-08	<input type="checkbox"/>	6.2	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	6.4	8	60	2
2FESM063-160-08	<input type="checkbox"/>	6.3	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	6.5	8	60	2
2FESM064-160-08	<input type="checkbox"/>	6.4	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	6.6	8	60	2
2FESM065-160-08	<input type="checkbox"/>	6.5	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	6.7	8	60	2
2FESM066-160-08	<input type="checkbox"/>	6.6	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	6.8	8	60	2
2FESM067-160-08	<input type="checkbox"/>	6.7	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	6.9	8	60	2
2FESM068-160-08	<input type="checkbox"/>	6.8	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	7.0	8	60	2
2FESM069-160-08	<input type="checkbox"/>	6.9	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	7.1	8	60	2
2FESM070-160-08	<input type="checkbox"/>	7.0	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	7.2	8	60	2
2FESM071-160-08	<input type="checkbox"/>	7.1	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	7.3	8	60	2
2FESM072-160-08	<input type="checkbox"/>	7.2	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	7.4	8	60	2
2FESM073-160-08	<input type="checkbox"/>	7.3	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	7.5	8	60	2
2FESM074-160-08	<input type="checkbox"/>	7.4	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	16.0	7.6	8	60	2
2FESM075-190-08	<input type="checkbox"/>	7.5	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	19.0	7.7	8	60	2
2FESM076-190-08	<input type="checkbox"/>	7.6	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	19.0	-	8	60	2
2FESM077-190-08	<input type="checkbox"/>	7.7	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	19.0	-	8	60	2
2FESM078-190-08	<input type="checkbox"/>	7.8	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	19.0	-	8	60	2
2FESM079-190-08	<input type="checkbox"/>	7.9	$\begin{matrix} 0 \\ -0.020 \end{matrix}$	19.0	-	8	60	2

: Check Availability

(Unit : mm)

Description	Std.	Outside Dia.	Mill Dia. tolerance	Length of cut	Neck Dia.	Shank diameter	Overall length	No. of Flutes
		øDc	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	ℓ	øD1	øDs	L	Z
2FESM080-190-08	<input type="checkbox"/>	8.0	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	-	8	60	2
2FESM081-190-10	<input type="checkbox"/>	8.1	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	8.3	10	70	2
2FESM082-190-10	<input type="checkbox"/>	8.2	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	8.4	10	70	2
2FESM083-190-10	<input type="checkbox"/>	8.3	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	8.5	10	70	2
2FESM084-190-10	<input type="checkbox"/>	8.4	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	8.6	10	70	2
2FESM085-190-10	<input type="checkbox"/>	8.5	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	8.7	10	70	2
2FESM086-190-10	<input type="checkbox"/>	8.6	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	8.8	10	70	2
2FESM087-190-10	<input type="checkbox"/>	8.7	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	8.9	10	70	2
2FESM088-190-10	<input type="checkbox"/>	8.8	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	9.0	10	70	2
2FESM089-190-10	<input type="checkbox"/>	8.9	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	9.1	10	70	2
2FESM090-190-10	<input type="checkbox"/>	9.0	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	9.2	10	70	2
2FESM091-190-10	<input type="checkbox"/>	9.1	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	9.3	10	70	2
2FESM092-190-10	<input type="checkbox"/>	9.2	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	9.4	10	70	2
2FESM093-190-10	<input type="checkbox"/>	9.3	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	9.5	10	70	2
2FESM094-190-10	<input type="checkbox"/>	9.4	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	9.6	10	70	2
2FESM095-190-10	<input type="checkbox"/>	9.5	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	19.0	9.7	10	70	2
2FESM096-220-10	<input type="checkbox"/>	9.6	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	22.0	-	10	70	2
2FESM097-220-10	<input type="checkbox"/>	9.7	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	22.0	-	10	70	2
2FESM098-220-10	<input type="checkbox"/>	9.8	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	22.0	-	10	70	2
2FESM099-220-10	<input type="checkbox"/>	9.9	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	22.0	-	10	70	2
2FESM100-220-10	<input type="checkbox"/>	10.0	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	22.0	-	10	70	2
2FESM105-220-12	<input type="checkbox"/>	10.5	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	22.0	10.7	12	75	2
2FESM110-220-12	<input type="checkbox"/>	11.0	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	22.0	11.2	12	75	2
2FESM115-220-12	<input type="checkbox"/>	11.5	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	22.0	11.7	12	75	2
2FESM120-260-12	<input type="checkbox"/>	12.0	$\begin{matrix} -0.010 \\ -0.030 \end{matrix}$	26.0	-	12	75	2
2FESM130-260-16	<input type="checkbox"/>	13.0	$\begin{matrix} -0.010 \\ -0.030 \end{matrix}$	26.0	13.2	16	75	2
2FESM140-260-16	<input type="checkbox"/>	14.0	$\begin{matrix} -0.010 \\ -0.030 \end{matrix}$	26.0	14.2	16	75	2
2FESM150-300-16	<input type="checkbox"/>	15.0	$\begin{matrix} -0.010 \\ -0.030 \end{matrix}$	30.0	15.2	16	90	2
2FESM160-320-16	<input type="checkbox"/>	16.0	$\begin{matrix} -0.010 \\ -0.030 \end{matrix}$	32.0	-	16	90	2

## 2FESL (Long)

Shouldering

(Unit : mm)

Description	Std.	Outside Dia.	Mill Dia. tolerance	Length of cut	Neck Dia.	Shank diameter	Overall length	No. of Flutes
		øDc	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	ℓ	øD1	øDs	L	Z
2FESL010-040-04	<input type="checkbox"/>	1.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	4.0	1.1	4	45	2
2FESL015-060-04	<input type="checkbox"/>	1.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	6.0	1.6	4	45	2
2FESL020-090-04	<input type="checkbox"/>	2.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	9.0	2.1	4	45	2
2FESL025-120-04	<input type="checkbox"/>	2.5	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	12.0	2.6	4	45	2
2FESL030-140-06	<input type="checkbox"/>	3.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	14.0	3.2	6	50	2
2FESL040-170-06	<input type="checkbox"/>	4.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	17.0	4.2	6	50	2
2FESL050-200-06	<input type="checkbox"/>	5.0	$\begin{matrix} 0 \\ -0.015 \end{matrix}$	20.0	5.2	6	60	2
2FESL060-240-06	<input type="checkbox"/>	6.0	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	24.0	-	6	60	2
2FESL080-280-08	<input type="checkbox"/>	8.0	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	28.0	-	8	70	2
2FESL100-340-10	<input type="checkbox"/>	10.0	$\begin{matrix} -0.005 \\ -0.025 \end{matrix}$	34.0	-	10	90	2
2FESL120-400-12	<input type="checkbox"/>	12.0	$\begin{matrix} -0.010 \\ -0.030 \end{matrix}$	40.0	-	12	90	2
2FESL160-480-16	<input type="checkbox"/>	16.0	$\begin{matrix} -0.010 \\ -0.030 \end{matrix}$	48.0	-	16	115	2

Recommended Cutting Conditions L33~L34



Solid End Mill