

# Juki Automation Systems Stick Feeders

## “MBF” Style Belt Feeders

The MBF feeders advance the components on a belt. The components are poured from the tube into the feeder. The MBF26 holds a single tube/part number. The MBF44 and MBF80 hold multiple parts depending on the part type. MBF26 and MBF44 advance the same way as a tape feeder (air cylinder on the feeder bank presses a lever which advances the belt) and the MBF80 uses an electric motor. All models mount on front of the machine only. Component type is fixed and cannot be changed.



**MBF-80:** 80mm wide (8 feeder slots, equivalent to 4 8mm tape feeders), motorized advancing (24VDC connection via power cord to machine power panel)



**MBF-44:** 44mm wide (6 feeder slots, equivalent to 3 8mm tape feeders), mechanically actuated (same method used for tape feeders)

**MBF-26:** 26mm wide (3 feeder slots, equivalent to 1.5 8mm tape feeders or 1 12mm tape feeder), mechanically actuated (same method used for tape feeders)



Family	Model	Description	Lane Types and Quantity
MBF-80	MBF80-SOIC	8-Lane Belt Feeder, SOIC	8 SOIC
	MBF80-SOL	5-Lane Belt Feeder, SOL	5 SOLIC
	MBF80-SO/SOL	6-Lane Belt Feeder, 3 SOL, 3 SOIC	3 SOLIC + 3 SOIC
	MBF80 PLCC28/32	4-Lane Belt Feeder, PLCC28/32	4 PLCC 28 or 32
	MBF80 SOJ	4-Lane Belt Feeder, 3 .300", 1 .400", SOJ	3x.3" SOJ + 1x.4" SOJ
MBF-44	MBF44-SOIC	4-Lane Belt Feeder, SOIC	4 SOIC
	MBF44-SOMC	3-Lane Belt Feeder, SOMC	3 SOMC
	MBF44-SOL	2-Lane Belt Feeder, SOL	2 SOLIC
	MBF44-SOW	2-Lane Belt Feeder, SOW	2 SOWIC
	MBF44-SOY	2-Lane Belt Feeder, SOY	2 SOYIC

<b>MBF-44</b>	MBF44-SOJ	3-Lane Belt Feeder, 2 .300", 1 .400", SOJ	2x.3" SOJ + 1 .4" SOJ
	MBF44-PLCC20	2-Lane Belt Feeder, PLCC20	2 PLCC 20
	MBF44-PLCC28/32	2-Lane Belt Feeder, PLCC28/32	2 PLCC 28 or 32
	MBF44-PLCC44	2-Lane Belt Feeder , 1 PLCC44, 1 SOL	2 PLCC 44
	MBF44-PLCC52	2-Lane Belt Feeder, 1 PLCC52, 1 SOIC	1 PLCC 52 + 1 SOIC
	MBF44-PLCC68	1-Lane Belt Feeder, PLCC68	1 PLCC 68
	MBF44-PLCC84	1-Lane Belt Feeder, PLCC84	1 PLCC 84
<b>MBF-26</b>	MBF26-SOIC	1-Lane Belt Feeder, SOIC	1 SOIC
	MBF26-SOL	1-Lane Belt Feeder, SOL	1 SOLIC
	MBF26-SOJ300	1-Lane Belt Feeder, SOJ300	1 .3" SOJ
	MBF26-SOJ400	1-Lane Belt Feeder, SOJ400	1 .4" SOJ

Custom MBFs can be made for a very wide variety of components. You can also get custom made MBF44s or MBF80s with the specific number and type of lanes you need on a single feeder.

#### **Compatibility**

<b>2000 Series</b>	<b>FX Series</b>	<b>Intelligent Feeder System</b>
Front only	X	MBF26 and MBF44 only

## Small IC Feeders



The “SIF” type feeders are designed for smaller ICs and advance parts using a small puff of air. The tube remains on the feeder until empty. An air fitting attaches to the back of the tube to blow the parts to the pick position.

The component type can be changed by changing the front “shutter” and the “nest” along the length of the feeder.

### Available Models

<b>Component Packages</b>	
MSOP 8/10	SOT 223
QFN 28/40	TDFN 6 (Maxim) / QFN 10
SOIC 8, QSOP 16	TSOC 6
SOIC 14/16, QSOP 16/20/24	TSSOP 8
	TSSOP 14/16
	TSSOP 20/24
SOP 8 (8S2)	TSSOP 24/28

### Compatibility

<b>2000 Series</b>	<b>FX Series</b>	<b>Intelligent Feeder System</b>
✓	✓	✓

Note: Optional air manifold required whenever 2 or more feeders are used on the same feeder bank.

## **SF Type Feeders**

The SF type feeders are adjustable single lane belt feeders. There are 2 basic models; SFN for parts up to 12.7mm and the SFW for parts up to 31.2mm.

SF type feeders have a hinged load chute in the back that allows easier unloading of unused parts. The feeders are mechanical and advance the same way as a tape feeder. The tube can be left in the feeder or removed.

A shim kit is available that allows any SFN to be converted into any other SFN type and the same for the SFW.



### SFN Models

Model		N1	N2		N3		N4	
Model name		SFN1AS	SFN2AS		SFN3AS		SFN4AS	
Lane width (mm)		7.2	9.2		11.2		13	
SOP	Nominal dimensions(mil)	225	300	-	375	-	450	-
	W(mm)	5.72 to 6.99	7.62 to 8.89		9.53 to 10.8		11.43 to 12.7	
	T(mm)	up to 1.5	2.0		2.5		3.0	
QFJ (PLCC)	Nominal dimensions(mil)	-	285x425	290x490	350	350x550	450	450x550
	W(mm)	-	8.05 to 8.31	8.13 to 8.51	9.78 to 10.03		12.to 12.57	
	T(mm)	-	4.20 to 4.57					
SOJ	Nominal dimensions(mil)	-	300	-	350	-	400	450
	W(mm)	-	8.38 to 8.76		9.65 to 10.03		10.92 to 11.30	12.19 to 12.57
	T(mm)	-	3.25 to 3.76					
Spacer (Spacer type and Number of spacers)		None	(E1112719000)x2 (Plate thickness: 1 mm)		D (E1113719000)x2 (Plate thickness: 2 mm)		F (E1114719000)x2 (Plate thickness: 2.9 mm)	

## SFN0

### [Stick feeder specifications: SFN0]

This type of stick feeder is equipped with the spacers exclusively designed for an SOP whose length (D) is shorter than the lane width of the stick feeder SFN1 and SFN2.

These spacers allow you to make trivial adjustments of the lane width according to an SOP to be fed.

Type	NO	
Model name	SFNOAS	
Lane width (mm)	6.9 (setting at the factory) / 6.6 to 9.1 (adjustable width range)	
Adjustable lane width (mm)	225	300
for a component to be fed (mil)	6.6, 6.9, 7.2	8.2, 8.3, 8.5, 8.6, 8.8, 8.9
Supplied spacers	Spacer A (E1111719000) t 0.5 X 2 Spacer G (E1157190000) t 0.3 X 4	

### SFW Models

		Model W				
Lane width/Nominal model	Comp. Height	Model W1	Model W2	Model W3	Model W4	Model W5
SOP		525mil 13.34 – 14.61mm	600mil 15.24 – 16.51mm			
Component Height		3.5	4.0			
SOJ (length up to 29.006mm)	3.25 – 3.76					
PLCC square (QFJ) (length 17.4 – 30.35)	4.2 – 5.7		650 mil	750 mil	950 mil	1150mil
PLCC rectangular (length 11.61 – 15.11)	4.2 – 4.57					
Lane width		15mm	18.2mm	20.8mm	26mm	31.2mm
Spacer		None	Spacer C x 2 (1.6mm thick)	Spacer F x 2 (2.9mm thick)	Spacer F x 2 + Spacer E x 2 (2.6mm thick)	Spacer F x 2 + Spacer E x 4

### Compatibility

2000 Series	FX Series	Intelligent Feeder System
✓	✓	✓