



SHUTTLING DEVICE

**3 POSITION** 

### 2 POSITION SHUTTLING DEVICE

## JJ-SERIES

**DURA-**SLIDE **MM** and **JJ** Series of Air Shuttles are another R&I development made to answer the automation industry's requirement for a standard stroked slide to meet special applications. Both series offer a compact size and the quality construction and durability you've come to expect.

#### FEATURES

**MM-**SFRIFS

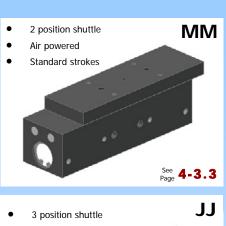
**DURA-SLIDE MM** and **JJ** Series were developed as isolation shuttles, typically found at the end of a parts feeder track for mounting tooling nests. However the shuttling devices can be used for any situation were accurate shuttling between 2 or 3 positions is required. Both the MM and JJ series have fixed internal stops to provide accurate strokes and to assure complete interchange-ability for field replacement. Furthermore both the MM and JJ shuttles are fully field serviceable with our repair kits. Standard strokes are listed on the following pages and other strokes, in this range, are available at no extra cost and no extra delivery time.

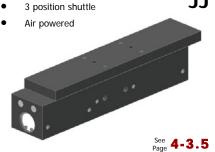
The sliding tables are supported by Oilite bushings running on hardened shafting and utilize Buna-  $N \mbox{ cup seals}.$ 

#### MOUNTING STYLES

**DURA-SLIDE MM** and **JJ** Series units can be mounted and located in any plane with provided mounting holes and dowel pin holes. The sliding table also has tapped and dowel holes for easy adaptations to additional work moving/holding devices or customer tooling.

### Air shuttles offer a compact alternative to standard linear slides or linear thrusters and are perfect for accurately shuttling or positioning of tooling.





<b>OPERATING PRINCIP</b>	LE	<b>TECHNICAL SPECIFICATIONS</b>		
MM-Series - 2 Position Shu	uttle	Pneumatic Specifications	ENGLISH METRIC	
Position 1 - Table Right	Position 2- Table Left	Pressure Range Cylinder Type	40-100 psi 3-7 bar Double Acting	
		Dynamic Seals	U-cups Buna-N	
		Required Valves	4-way, 2 position	
	•	Temperature Range		
		Buna-N Seals	-30 to 180 F -35 to 80 C	
Q.	0.	Viton Seals (-V option)	-20 to 300 F -30 to 150 C	
JJ-Series - 3 Position Shu				
Position 1 - Table Right	Position 2 - Table Center	Position 3 - Table Left		
BIN	A IN B EXH	A EXH		
C EXH	C IN	B EXH		
A			В	

FOR MORE INFORMATION CALL US AT 1-800-588-0174 OR 860-589-6364 FAX: 860-589-6235

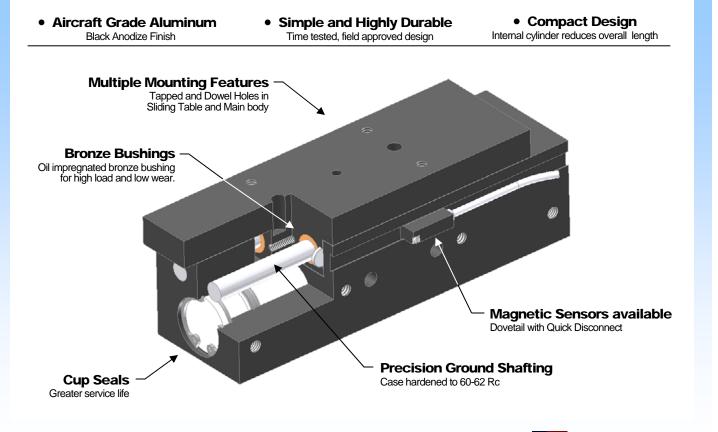
VISIT US AT www.RIMFG.com



## **DURA-**SLIDE AIR SHUTTLES



PRODUCT FEATURES



**DESIGNED - MANUFACTURED - ASSEMBLED IN THE USA** 

**MOUNTING INFORMATION** 

#### Mounts and operates in any orientation

MAIN BODY TOOLING 0 0

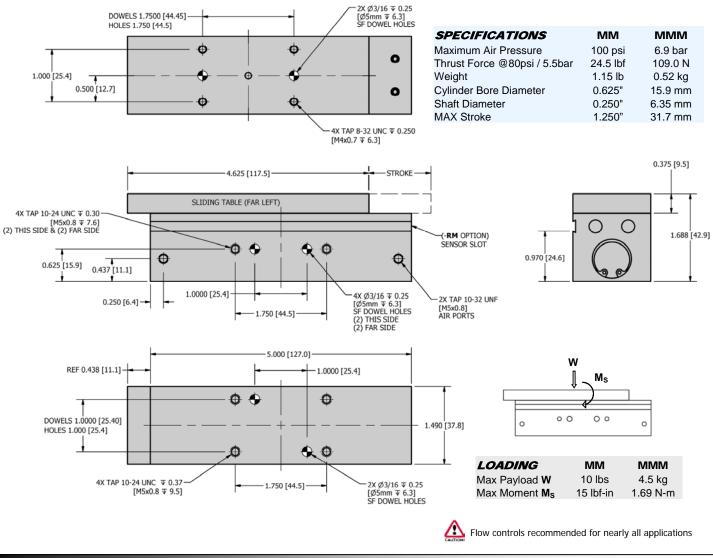
Body can be mounted with Tapped holes on bottom and both sides. Positive location with slip fit Dowel holes.

Payload can be mounted directly to sliding table with Tapped holes. Positive location with slip fit Dowel holes.



2 POSITION SHUTTLE DEVICE

DIMENSIONAL DRAWING



**HOW TO ORDER : BASIC UNIT** 



### SAMPLE ORDER: MM-1.25-RM

Ex) MM Shuttle with 1.250" stroke with sensor magnets

ACCESSORIES (order separately)

#### MAGNETIC SENSOR KITS \* (Dovetail mounted)

DSK-N - Magnetic Sensor NPN w/ quick disconnect Kit DSK-P - Magnetic Sensor PNP w/ quick disconnect Kit \* Requires Sensor Ready (-RM). Sensors kits include (2) sensors and (2) 5 meter cables.

#### MAGNETIC SENSORS \* (Dovetail mounted)

**DS-N** - Magnetic Sensor NPN w/ quick disconnect **DS-P** - Magnetic Sensor PNP w/ quick disconnect \* *Requires Sensor Ready* (-*RM*). *Includes* (1) *sensor*.

#### **SENSOR CABLE**

SENCAB-5 - Quick Disconnect PUR Cable 5M Length

CUSTOM DESIGNS ALWAYS AVAILABLE PLEASE CONTACT US FOR INFORMATION



AIR SHUTTLES

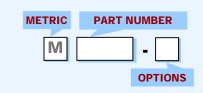


# 0 0 0 RK 5 O (6) 0) 0 00 00 0 (4) (1) 3 8 **RK**

## PARTS LIST

ITEM	REQ'D	NAME	PART #	OPTIONS
1	1	Main Body	MM-101	-RM <sup>3</sup>
2	1	Sliding Table	MM-102	-RM <sup>3</sup>
3	1	Piston *	MM-103	
4	2	Cylinder Cap *	MM-104	
5	4	Bushing *	MM-105	
6	2	Rod *	MM-106	
7	1	Stroke Block	MM-107	-S <sup>1</sup>
8	2	U-cup *	UCP-215	-V <sup>2</sup>
9	2	O-ring *	ORG-016	-V <sup>2</sup>
RK	1	Repair Kit * <sup>#</sup>	MM-RK	-V <sup>2</sup>

## **HOW TO ORDER PARTS**



## SAMPLE ORDER: MM-107-0.75

Ex) MM Stroke Block for 0.750" stroke

#### **OPTIONS** (see product pages for information)

<sup>1</sup> - **S** = Stroke (Stroke Block only required for 1.000" [25.4mm] stroke and below)

- <sup>2</sup> V = Viton Seals if required
- <sup>3</sup> **RM** = Sensor Ready unit

#### NOTES

\* - Metric code not required

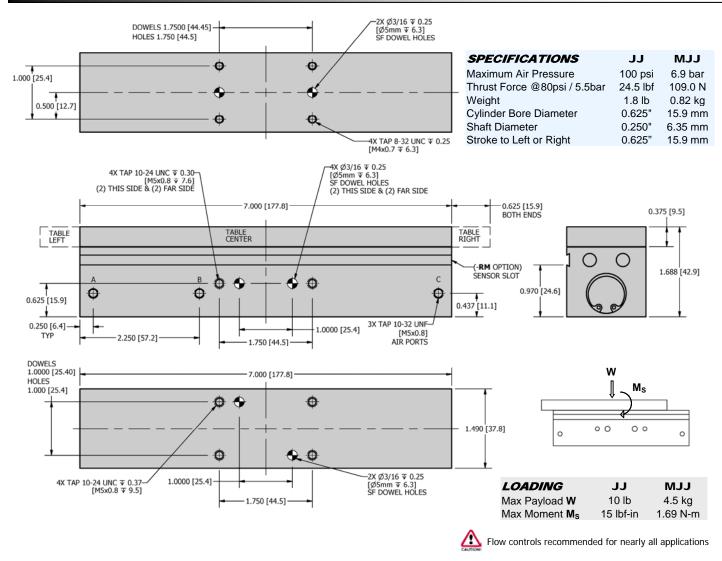
Repair Kits include req'd qty of parts marked with RK



AIR SHUTTLES

3 POSITION SHUTTLE DEVICE

**DIMENSIONAL DRAWING** 



### **HOW TO ORDER : BASIC UNIT**



## **SAMPLE ORDER: JJ-V-RM**

Ex) JJ Shuttle with Viton seals and sensor magnets

#### **ACCESSORIES** (order separately)

#### MAGNETIC SENSOR KITS \* (Dovetail mounted)

DSK-3-N - Magnetic Sensor NPN w/ quick disconnect Kit DSK-3-P - Magnetic Sensor PNP w/ quick disconnect Kit \* Requires Sensor Ready (-RM). Sensors kits include (3) sensors and (3) 5 meter cables.

#### MAGNETIC SENSORS \* (Dovetail mounted)

**DS-N** - Magnetic Sensor NPN w/ quick disconnect **DS-P** - Magnetic Sensor PNP w/ quick disconnect \* *Requires Sensor Ready* (-*RM*). *Includes* (1) *sensor*.

#### **SENSOR CABLE**

SENCAB-5 - Quick Disconnect PUR Cable 5M Length

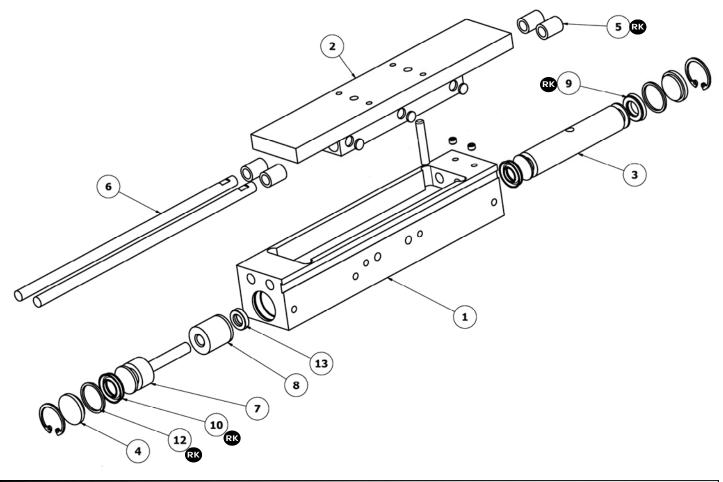
#### CUSTOM DESIGNS ALWAYS AVAILABLE PLEASE CONTACT US FOR INFORMATION



AIR SHUTTLES



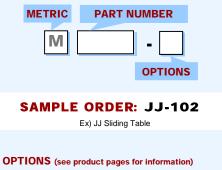
## EXPLODED VIEW



## PARTS LIST

ITEM	REQ'D	NAME	PART #	OPTIONS
1	1	Main Body	JJ-101	-RM <sup>2</sup>
2	1	Sliding Table	JJ-102	-RM <sup>2</sup>
3	1	Piston *	MM-103	
4	2	Cylinder Cap *	MM-104	
5	4	Bushing *	MM-105	
6	2	Rod *	JJ-106	
7	1	Piston Stop *	JJ-107	
8	1	Stop Guide *	JJ-108	
9	2	U-cup (Piston) *	UCP-215	-V <sup>1</sup>
10	1	U-cup (Piston Stop) *	UCP-220	-V <sup>1</sup>
12	2	O-ring *	ORG-016	-V <sup>1</sup>
13	1	Shaft Seal *	SSA-210	-V <sup>1</sup>
RK	1	Repair Kit * <sup>#</sup>	JJ-RK	-V <sup>1</sup>

## **HOW TO ORDER PARTS**



- <sup>1</sup> **V** = Viton Seals option
- <sup>2</sup> **RM** = Sensor Ready unit

#### NOTES

- \* Metric code not required
- # Repair Kits include req'd qty of parts marked with RK