

Pneumatic Module Units (Vertical)

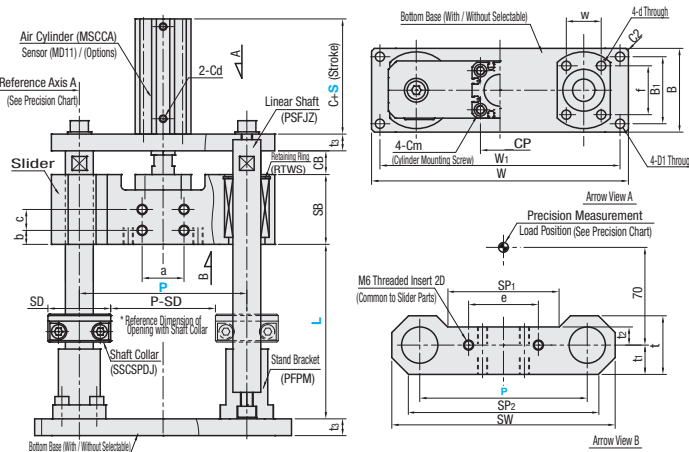
Pneumatic module unit that requires no basic design. To be used in vertical operations such as pushing, cutting and push motion.



Specifications List

Part Number	Specifications
Type	No. Cylinder Base
MAT25	NN(S) N (w/o) N (w/o)
MAT32	NB(S) N (w/o) B (w/)
MAT40	CN(S) C (w/) N (w/o)
MAT50	CB(S) C (w/) B (w/)

MAT25
MAT32
MAT40
MAT50
MAT63



Components

Parts	Base	Slider	Related Connecting Parts
Material	A6063	A6063	SUS
Surface Treatment	Clear Anodize	Clear Anodize	-

- Possible to select the unit without a cylinder, then mount other manufacturer's cylinder.
- Compatible cylinder diameters are Ø25, Ø32, Ø40, Ø50 and Ø63.
- MAT25 is the only option for S Type. (MAT25(S))
- S Type shaft diameter is Ø16. (See the Components List below.)

Module Components

Part Number	Component Name
Type	No. Cylinder Linear Shaft Floating Joint Linear Bushing Retaining Ring Shaft Collar Stand Bracket
MAT25	NN, NBS, CNS, CBS, NN, NB, CN, CB, MSCCA25, PSFJZ16 (Shaft Dia. 16), FJUCS10, LMU16, RTWS28, SSCSPDJ16, PPFM16
MAT32	NN, NB, CN, CB, MSCCA25, PSFJZ20 (Shaft Dia. 20), FJUCS14, LMU20, RTWS32, SSCSPDJ20, PPFM20
MAT40	NN, NB, CN, CB, MSCCA32, PSFJZ25 (Shaft Dia. 25), FJUCS14, LMU25, RTWS40, SSCSPDJ25, PPFM25
MAT50	NN, NB, CN, CB, MSCCA40, PSFJZ25 (Shaft Dia. 25), FJUCS18, LMU25, RTWS40, SSCSPDJ25, PPFM25
MAT63	NN, NB, CN, CB, MSCCA50, PSFJZ25 (Shaft Dia. 25), FJUCS18, LMU25, RTWS40, SSCSPDJ25, PPFM25
MAT63	NN, NB, CN, CB, MSCCA63, PSFJZ25 (Shaft Dia. 25), FJUCS18, LMU25, RTWS40, SSCSPDJ25, PPFM25

Pages on Catalog: P.1485, P.135, P.1540, P.315, P.265, P.273, P.2154

For the components above, please confirm the details on the listed catalog pages.

Part Number	Type	No.	S	L (10mm Increment)	CB	C	CP	Cm	Cd	SB	Slider Dimension										Stand Mounting Dimension			Base Dimension (When With Base Type is selected)			SD				
											P	SW	SP1	SP2	t	ti	tz	a	b	c	e	d	f	w	P	W		B	W1	B1	
MAT25	NN(S)	120	17	120	-	-	-	-	-	-	50	5.5	32	20	-	-	-	-	-	-	-	6.6	40	6.6	35	35	40	6.6	35	35	
MAT32	NN	150	27	150	-	-	-	-	-	-	68	6.6	35	25	-	-	-	-	-	-	-	9	45	35	9	45	35	9	45	35	
MAT40	NN	200	30	200	-	-	-	-	-	-	68	6.6	35	25	-	-	-	-	-	-	-	9	45	35	9	45	35	9	45	35	
MAT50	NN	250	35	250	-	-	-	-	-	-	72	6.6	35	25	-	-	-	-	-	-	-	15	11	15	11	15	11	15	11	15	11
MAT63	NN	300	40	300	-	-	-	-	-	-	72	6.6	35	25	-	-	-	-	-	-	-	15	11	15	11	15	11	15	11	15	11

Ordering Example: Part Number - S - P - L - (NSC, AS)
MAT25NN - 30 - 120 - 180

Alteration	Code	Spec.
W/o Shaft Collar	NSC	Excluding Shaft Collar
With Auto Switches	AS	Auto switches are included. Part Number MD11L3 2 pcs. Applicable to cylinder units only.

Part Number	Type	No.	Unit Price 1 - 4 pc(s)																				
			Cylinder Stroke S=30						Cylinder Stroke S=50														
			L=120-200		L=210-250		L=260-300		L=160-200		L=210-250		L=260-300										
MAT25	NNS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAT32	NNS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAT40	NNS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAT50	NNS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAT63	NNS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

For orders larger than indicated quantity, please request a quotation.

Part Number	Type	No.	Mass (kg)																						
			Cylinder Stroke S=30						Cylinder Stroke S=50																
			L=120-200		L=210-250		L=260-300		L=160-200		L=210-250		L=260-300												
MAT25	NNS	2.2	-	-	2.3	-	-	-	2.2	-	-	2.3	-	-	-	-	-	-	-	-	-	-	-		
MAT32	NNS	2.5	-	-	2.7	-	-	-	2.5	-	-	2.7	-	-	-	-	-	-	-	-	-	-	-		
MAT40	NNS	2.5	-	-	2.6	-	-	-	2.6	-	-	2.7	-	-	-	-	-	-	-	-	-	-	-		
MAT50	NNS	2.9	-	-	3.0	-	-	-	3.0	-	-	3.1	-	-	-	-	-	-	-	-	-	-	-		
MAT63	NNS	2.7	3.1	3.8	3.0	3.4	4.0	3.6	4.3	2.7	3.1	3.8	3.0	3.4	4.0	3.6	4.3	2.7	3.1	3.8	3.0	3.4	4.0	3.6	4.3

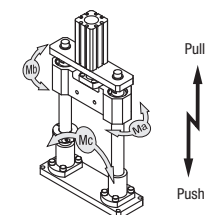
Velocity, Load Capacity, Force, Allowable Moment

Type	P Slider Pitch	Slider Mass (including Joint)	Max. Velocity (mm/sec)	Load Capacity (kN)	Cylinder Thrust Force Reference Value (kN)								Allowable Static Moment (N·m)			
					at 0.4MPa		at 0.5MPa		at 0.6MPa		at 0.7MPa		Ma	Mb	Mc	
MAT25(S)	120	0.9	500	0.08	0.15	0.20	0.19	0.25	0.23	0.30	0.26	0.34	3.6	3.6	5.9	
MAT25	120	0.9			0.15	0.20	0.19	0.25	0.23	0.30	0.26	0.34	4.8	4.8	6.9	
MAT32	150	1.3			0.13	0.24	0.32	0.30	0.40	0.36	0.48	0.42	0.56	4.8	4.8	8.6
MAT40	200	1.8			0.13	0.24	0.32	0.30	0.40	0.36	0.48	0.42	0.56	4.8	4.8	11.4
MAT50	150	1.8	0.22	0.42	0.50	0.53	0.63	0.63	0.75	0.74	0.88	7.7	7.7	9.8		
MAT63	200	2.8	0.22	0.42	0.50	0.53	0.63	0.63	0.75	0.74	0.88	7.7	7.7	13.1		
MAT63	200	2.8	0.35	0.66	0.79	0.82	0.98	0.99	1.18	1.15	1.37	7.7	7.7	13.1		
MAT63	200	2.8	0.59	1.12	1.25	1.40	1.56	1.68	1.87	1.96	2.18	7.7	7.7	13.1		

Accuracy

Part Number	Running Parallelism to Reference Axis (Upright)					
	Under No Load			Under Load (Reference)		
	Slider Pitch		200	Slider Pitch		200
MAT25(S)	0.07	-	-	0.08	-	-
MAT25	0.07	0.07	0.07	0.10	0.10	0.10
MAT32	-	0.07	0.07	-	0.10	0.10
MAT40	-	0.07	0.07	-	0.10	0.10
MAT50	-	-	0.07	-	-	0.10
MAT63	-	-	0.07	-	-	0.10

Allowable Moment



- Measurement reference is Axis A.
- Mount the load on the surface "e", apply a 3kg mass at 70mm from the shaft center, and measure.
- Accuracy does not vary by difference in cylinder stroke.
- Running parallelism values are for reference only.