

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
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Full-service, independent repair center
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Custom engineering
so your equipment works exactly as you specify.

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- In stock / Ready-to-ship
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MPS SERIES

Miniature Rail Thruster Slide | Features and Benefits | How To Order

Features:

- Compact high reliability bearing design
- Excellent part position repeatability
- Zero side play with patented preloaded "Dual-V" roller bearings
- Adjustable extend/retract hard stops
- Two Position sensing with hall effect sensors
- Viton® seals for operation in high temperature environments

Applications:

- Precision applications
- Small parts handling
- OEM packaging machines



How To Order

Base Model
MPS

Bore Size
1M
2M

Seals Description
"Blank" Buna-N
V Viton® High Temperature

Body Size **Stroke**
1 13mm [0.5"]
2 25mm [1.0"]
3 38mm [1.5"]
4 51mm [2.0"]

Accessories

Sensor Accessories	Model Numbers	Part Number	Qty/Unit
Magneto Resistive Sensor with Quick. Disconnect*	All Models	OHSN-006	1-2
Magneto Resistive Sensor with Quick. Disconnect*		OHSP-006	
Quick Disconnect 2 Meter Cable Length*		CABL-010	
Quick Disconnect 5 Meter Cable Length*		CABL-013	

Pneumatic Accessories	Model Numbers	Part Number	Qty/Unit
M5 Adjustable Flow Control	All Models	VLVF-008	1-2
M2.5 Barbed Fitting		PLFT-005	2
Seal Kit (Buna-N)	-1M	SLKT-090	1
Seal Kit (Viton®)	-1M	SLKT-090V	
Seal Kit (Buna-N)	-2M	SLKT-091	
Seal Kit (Viton®)	-2M	SLKT-091V	

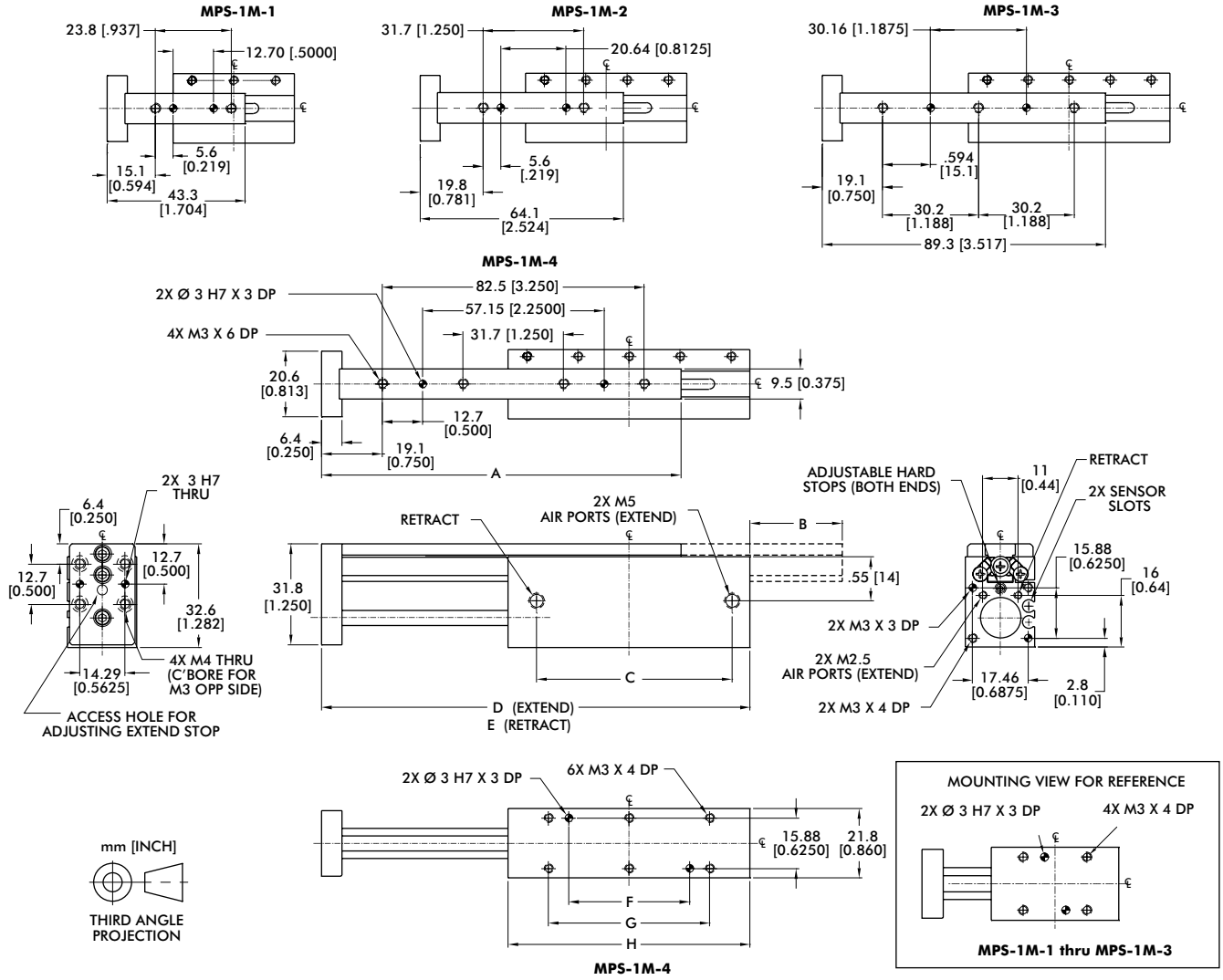
*Sensor and cable sold separately.

Specifications	Units	1M-1	1M-2	1M-3	1M-4
Thrust Force **F** @ 7 bar [100 psi]	N [lbs]	67 [15]			
Max. Stroke	mm [in]	13 [0.50]	25 [1.00]	38 [1.50]	51 [2.00]
Stroke Adjustability (each end)	mm [in]	3 [0.12]		6 [0.25]	
Weight	kg [lb]	0.08 [0.18]	0.10 [0.22]	0.13 [0.28]	0.14 [0.32]
Max. Payload **W**	kg [lb]	0.14 [0.30]	0.32 [0.70]	0.45 [1.00]	0.59 [1.30]
Pressure Range	bar [psi]	1.5-7 [20-100]			
Cylinder Bore Ø	mm [in]	11.1 [0.438]			
Temperature Range (Buna-N seals)	°C [°F]	-35°~80° [-30°~180°]			
Temperature Range (Viton® seals)	°C [°F]	-30°~120° [-20°~250°]			
Actuation	sec	0.10	0.11	0.13	0.14
Linear Accuracy (per 25mm of travel)	mm [in]	±0.003 [±0.0001]			
Repeatability (-P option)	mm [in]	±0.03 [±0.010]			
Valve to Actuate Double Acting		4-way, 2-position			

Specifications	Units	2M-1	2M-2	2M-3	2M-4
Thrust Force **F** @ 7 bar [100 psi]	N [lbs]	196 [44]			
Max. Stroke	mm [in]	13 [0.50]	25 [1.00]	38 [1.50]	51 [2.00]
Stroke Adjustability (each end)	mm [in]	3 [0.12]		6 [0.25]	
Weight	kg [lb]	0.12 [0.26]	0.14 [0.32]	0.18 [0.40]	0.21 [0.46]
Max. Payload **W**	kg [lb]	0.23 [0.50]	0.45 [1.00]	0.91 [2.00]	1.36 [3.00]
Pressure Range	bar [psi]	1.5-7 [20-100]			
Cylinder Bore Ø	mm [in]	19.1 [0.750]			
Temperature Range (Buna-N seals)	°C [°F]	-35°~80° [-30°~180°]			
Temperature Range (Viton® seals)	°C [°F]	-30°~120° [-20°~250°]			
Actuation	sec	0.12	0.16	0.19	0.24
Linear Accuracy (per 25mm of travel)	mm [in]	±0.003 [±0.0001]			
Repeatability (-P option)	mm [in]	±0.03 [±0.010]			
Valve to Actuate Double Acting		4-way, 2-position			

MPS-1M

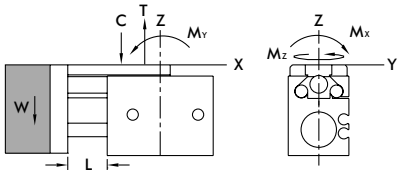
Miniature Rail Thruster Slide| Dimensions and Technical Specifications



Model	A	B	C	D	E	F	G	H
MPS-1M-1	43.3 [1.704]	--	23 [0.92]	59 [2.31]	46 [1.81]	6.35 [0.2500]	19.1 [0.750]	38.1 [1.500]
MPS-1M-2	64.1 [2.524]	5.4 [0.211]	36 [1.43]	84 [3.31]	58 [2.31]	19.05 [0.7500]	31.8 [1.250]	50.8 [2.000]
MPS-1M-3	89.3 [3.517]	17.9 [0.704]	49 [1.93]	110 [4.31]	71 [2.81]	25.40 [1.0000]	38.1 [1.500]	63.5 [2.500]
MPS-1M-4	113.1 [4.454]	29.0 [1.141]	62 [2.43]	135 [5.31]	84 [3.31]	38.10 [1.5000]	50.8 [2.000]	76.2 [3.000]

Dimensions in mm [in]

Loading Information



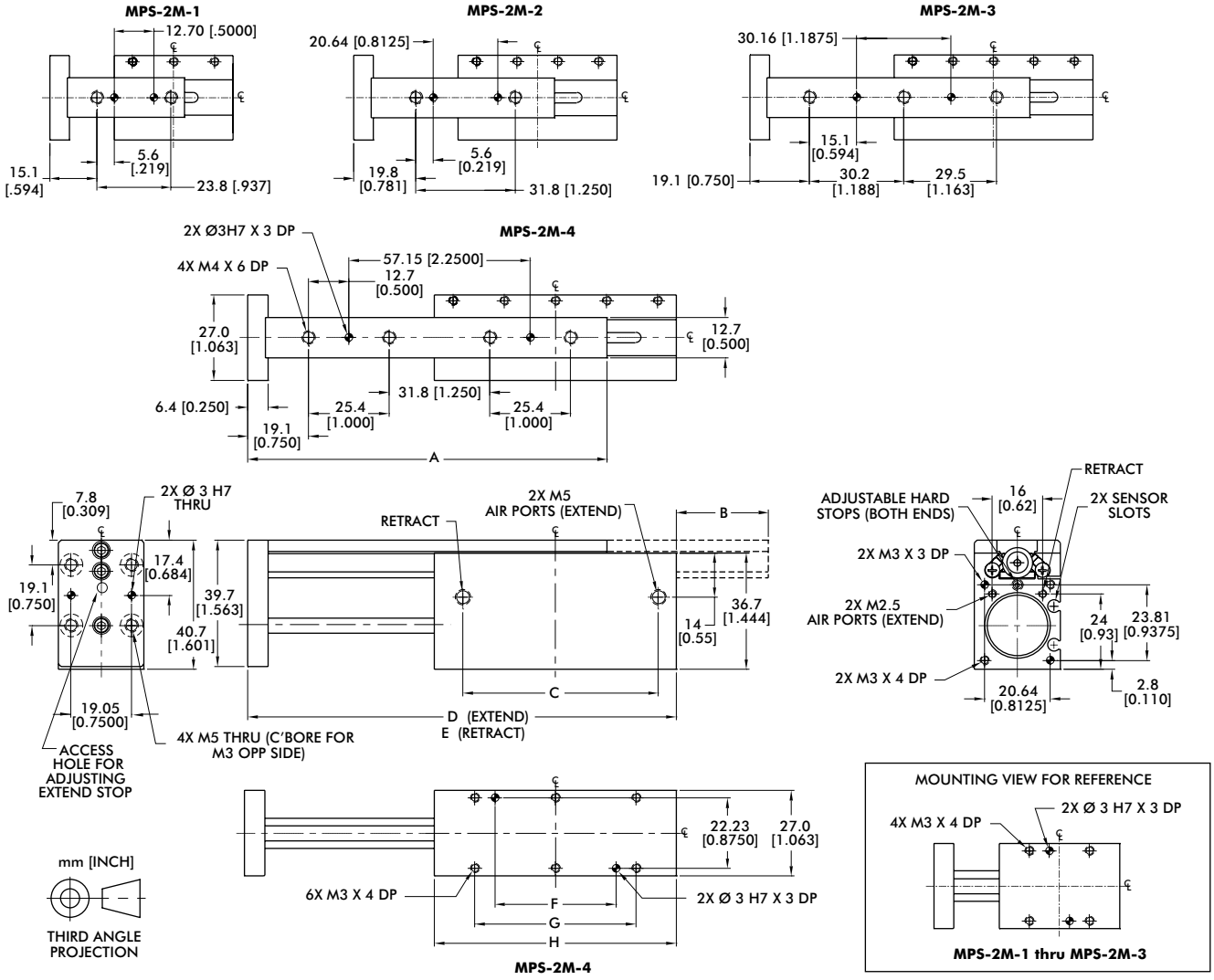
MPS-1M-1	Static
Maximum Tensile **T**	111 N [25 lbs]
Maximum Compressive **C**	111 N [25 lbs]
Maximum Moment M_x	3.4 Nm [30 in-lbs]
Maximum Moment M_y	2.3 Nm [20 in-lbs]
Maximum Moment M_z	2.3 Nm [20 in-lbs]

MPS-1M-3	Static
Maximum Tensile **T**	222 N [50 lbs]
Maximum Compressive **C**	222 N [50 lbs]
Maximum Moment M_x	6.8 Nm [60 in-lbs]
Maximum Moment M_y	4.5 Nm [40 in-lbs]
Maximum Moment M_z	4.5 Nm [40 in-lbs]

MPS-1M-2	Static
Maximum Tensile **T**	156 N [35 lbs]
Maximum Compressive **C**	156 N [35 lbs]
Maximum Moment M_x	4.5 Nm [40 in-lbs]
Maximum Moment M_y	3.4 Nm [30 in-lbs]
Maximum Moment M_z	3.4 Nm [30 in-lbs]

MPS-1M-4	Static
Maximum Tensile **T**	311 N [70 lbs]
Maximum Compressive **C**	311 N [70 lbs]
Maximum Moment M_x	9.0 Nm [80 in-lbs]
Maximum Moment M_y	5.7 Nm [50 in-lbs]
Maximum Moment M_z	5.7 Nm [50 in-lbs]

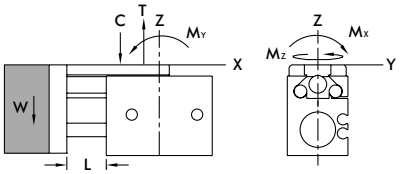
Miniature Rail Thruster Slide| Dimensions and Technical Specifications



Model	A	B	C	D	E	F	G	H
MPS-2M-1	43.3 [1.704]	--	23 [0.92]	59 [2.31]	46 [1.81]	6.35 [0.2500]	19.1 [0.750]	38.1 [1.500]
MPS-2M-2	64.1 [2.524]	5.4 [0.211]	36 [1.43]	84 [3.31]	59 [2.31]	19.05 [0.7500]	31.7 [1.250]	50.8 [2.000]
MPS-2M-3	89.5 [3.524]	17.9 [0.704]	49 [1.92]	110 [4.31]	71 [2.81]	25.40 [1.0000]	38.1 [1.500]	63.5 [2.500]
MPS-2M-4	113.1 [4.454]	29.0 [1.141]	62 [2.42]	135 [5.31]	84 [3.31]	38.10 [1.5000]	50.8 [2.000]	76.2 [3.000]

Dimensions in mm [in]

Loading Information



MPS-2M-1	Static
Maximum Tensile **T**	111 N [25 lbs]
Maximum Compressive **C**	111 N [25 lbs]
Maximum Moment M_x	3.4 Nm [30 in-lbs]
Maximum Moment M_y	2.3 Nm [20 in-lbs]
Maximum Moment M_z	2.3 Nm [20 in-lbs]

MPS-2M-2	Static
Maximum Tensile **T**	156 N [35 lbs]
Maximum Compressive **C**	156 N [35 lbs]
Maximum Moment M_x	4.5 Nm [40 in-lbs]
Maximum Moment M_y	3.4 Nm [30 in-lbs]
Maximum Moment M_z	3.4 Nm [30 in-lbs]

MPS-2M-3	Static
Maximum Tensile **T**	222 N [50 lbs]
Maximum Compressive **C**	222 N [50 lbs]
Maximum Moment M_x	6.8 Nm [60 in-lbs]
Maximum Moment M_y	4.5 Nm [40 in-lbs]
Maximum Moment M_z	4.5 Nm [40 in-lbs]

MPS-2M-4	Static
Maximum Tensile **T**	311 N [70 lbs]
Maximum Compressive **C**	311 N [70 lbs]
Maximum Moment M_x	9.0 Nm [80 in-lbs]
Maximum Moment M_y	5.7 Nm [50 in-lbs]
Maximum Moment M_z	5.7 Nm [50 in-lbs]

FEED ESCAPEMENTS

Grippers, Rotates, and Linear Slide Solutions

Model		Stroke Range	Thrust Range	Operating Environment	Special Features	Page GR-ESC-#
RFE		16-32mm [0.625-1.25 in]	111N - 400 N [25 lbs - 90 lbs]	IP54	Conveying part accumulator, part separator and staging. Failsafe finger locking	3
RN		16-32mm [0.625-1.25 in]	111N - 400 N [25 lbs - 90 lbs]	IP54	In-line part ejector and part staging. Conveying part accumulator or part separator.	7

FEED ESCAPEMENTS

Product Overview



Global Automation Solutions

DESTACO's Robohand products are engineered for reliability and long life to ensure maximum production uptime. These products are designed and machined for precise repeatability with minimal maintenance.



DESTACO a DOVER company

destaco.com

End Effectors | Grippers | Indexers | Manual Clamps | Power Clamps | Remote Handling

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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