



A PowerTrax™ Series slide assembly is truly a "System" not just a "Component". The matched components used in PowerTrax™ Slides result in better system performance. When PowerTrax™ Slides Systems are used as subassemblies set-up and alignment time is reduced. PowerTrax™ Slide Systems are easier to specify and to order.

POWERTRAX™ SLIDE SYSTEM FEATURES

Precision carriage plates supplied with Series 130, 200 and MM Slide™, help prevent misaligned shafts and bearings.

Aluminum carriage plates include threaded steel inserts at key mounting locations.

Protective, non-corrosive finish on all exposed non-wear components.

PowerTrax™ Slide Systems have been engineered by Nook Industries for use in the following applications:

- Product Packaging
- Electronics Manufacturing
- Food Processing
- Machine Tool Equipment
- Component Assembly
- Material Handling
- Converting Processes
- Container Manufacturing
- Medical Equipment
- Textile Industry
- Automated Test Equipment

Contact Nook Industries, Inc. to discuss special requirements. Modifications include:

- Special screws (ground thread, precision rolled with preloaded nuts, high lead screws, metric lead screws, etc.)
- Protective boots in a variety of materials (neoprene, metallic, etc.)
- Special motor mounts (Servos, steppers, etc.)
- Custom carriage machining

SERIES 100 SLIDE SYSTEMS



PowerTrax™ Series 100 slide systems are pre-assembled and ready to mount. Series 100 slides consist of combinations of PowerTrax™ Linear Ball Bearing Pillow Blocks, HG shafting, carriage plates and shaft supports. Aluminum carriage plates include threaded steel inserts at key mounting locations. All exposed non-wearing components have a protective, corrosion resistant finish.



SERIES 200 SLIDE SYSTEMS

PowerTrax[™] Series 200 slide systems are assembled slides which include:

- Linear Bearing pillow blocks
- Integrated end supports
- HG linear shafts
- Carriage plate
- PowerAc[™] or PowerTrac[™] Screw assembly

Many options are available for these slide systems. Different screw styles and leads, protective boots, special motor mounts and custom carriage plate machining is available. Contact Nook Industries, Inc. for assistance.

MM SLIDE™ MINI SLIDE SYSTEMS



PowerTrax™ MM Slide™ are metric-dimensioned compact slide units. They utilize lightweight aluminum components and include an integrated carriage/pillow block assembly for a reduced overall height. A wide variety of screw diameters, leads and nut styles are available. These systems include:

- EXCEL™ linear bearings
- Integrated end supports
- HG linear shafts
- Carriage/pillow block assembly
- Lead screw assembly

MM SLIDE™ AND SERIES 200 REFERENCE NUMBER SYSTEM





212 - 12 - L 24 / 0750-0200 SRT / A34 / S

MODEL

MM SLIDE™

012 = Double Shaft End Supported System with Screw

SERIES 200

211 = Double Shaft End Supported System without Screw

251 = Double Shaft Fully Supported System without Screw

212 = Double Shaft End Supported System with Screw

252 = Double Shaft Fully Supported System with Screw

SERIES 300

302 = Double Shaft End Supported System without Screw

312 = Double Shaft Fully Supported System with Screw

SHAFT DIAMETER

Diameter of the shaft in sixteenth of an inch

MM SLIDE™ 6 = 3/8 Inch **SERIES 200**

8 = 1/2 Inch

12 = 3/4 inch

16 = 1 inch

 $24 = 1 \frac{1}{2} \text{ inch}$

SERIES 300

8 = 1/2 Inch12 = 3/4 inch

16 = 1 inch

OVERALL LENGTH

OAL Including end blocks, are inches preceded by an "L".

NOTE:

PRECISION LINEAR SLIDE SYSTEMS TECHNICAL DATA

See description on the following pages for actual travel distance and standard lengths.

SCREW SPECIFICATION

Screw Size is matched to the diameter of the shaft. Select either an Acme or Ball Screw Part Number.

SERIES 200

MM SLIDET	И	
SHAFT Dia.	SPEEDY™ Screw Part #	CARRY™ Screw Part #
6 (3/8")	11 x 60 13 x 70 14 x 8 14 x 18 14 x 30	12 x 4 12 x 5

SHAFT Dia.	ACME SCREW Part #	BALL SCREW Part #
	1/2-1	
8 (1/2")	1/2–2	0500-0200 SRT
	1/2-5	0500-0500 SRT
	1/2–10	
12 (3/4")	3/4–10	0750-0200 SRT
12 (3/4)	3/4-10	0750-0500 SRT
	1–1	1000-0250 SRT
16 (1")	1–10	1000-0500 SRT
	1 10	1000-1000 SRT
	1-1/2–2	1500-0250 SRT
24 (1-1/2")	1-1/2-2-2/3	1500-0500 SRT
24 (1-1/2)	1-1/2-4	1500-1000 SRT
	1-1/2-5	1500-1875 SRT
	1-1/2-10	1500-0500 XPR

SERIES 300		
SHAFT Dia.	ACME SCREW Part #	BALL SCREW Part #
8 (1/2")	3/8-2 3/8-4 3/8-5 3/8-6 3/8-8 3/8-10 3/8-12 3/8-16	0375-0125 SRT
12 (3/4")	1/2-1 1/2-2 1/2-4 1/2-5 1/2-10	0500-0200 SRT 0500-0500 SRT
16 (1")	3/4-10	0750-0200 SRT 0750-0500 SRT

MOTOR ADAPTERS

MM SLIDE™

A23 = 23 Frame for the **6** (3/8")

00 = No motor adapter

SERIES 200

A23 = 23 Frame for the **8** (1/2") and **12** (3/4") Slide

A34 = 34 Frame size for **16** (1") Slide

A42 = 42 Frame size for **24** (1 1/2") Slide

00 = No motor adapter

SERIES 300

A23 = 23 Frame for the **8** (1/2") and **12** (3/4") Slide

A34 = 34 Frame size for **16** (1") Slide

00 = No motor adapter

MODIFIER LIST

ALWAYS S or M

S = Standard, no additional description or modification required

M = Modified, additional description required

= Boot, the "L" dimension must be increased by .1" times travel in order to accommodate the retracted boot

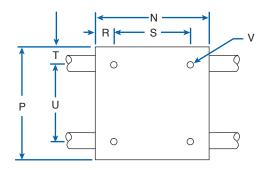
248 nookindustries.com

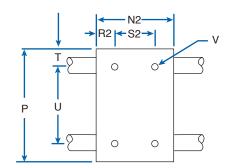
The specifications and data in this publication are believed to be accurate and reliable. However, it is the responsibility of the product user to determine the suitability of Nook Industries products for a specific application. While defective products will be replaced without charge if promptly returned, no liability is assumed beyond such replacement.



CARRIAGE MOUNTING PLATES AND SERIES 111 SLIDE SYSTEM

CARRIAGE MOUNTING PLATES







CARRIAGE 2

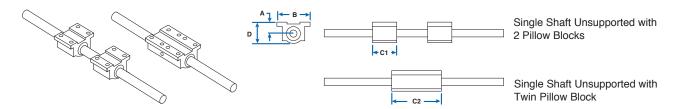
CARRIAGE 1

CARRIAGE MOUNTING PLATES

	NOMINAL	DIMENS	SION (inc	hes)								
	HAFT DIA. CARRIAGE 1				COMMON TO CARRIAGE 1 & 2				CA	ARRIAGE	2	
Ľ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	N	R	S	Р	T	U	V	W	N2	R2	S2
	1/2	5.50	.500	4.50	5.50	1.125	3.25	1/4-20	.375	3.50	.50	2.50
	3/4	7.50	.750	6.00	7.50	1.500	4.50	5/16-18	.50	4.50	.75	3.00
	1	9.00	1.000	7.00	9.00	1.750	5.50	3/8-16	.50	6.00	1.00	4.00
	1-1/2	13.00	1.500	10.00	13.00	2.500	8.00	1/2-13	.75	9.00	1.50	6.00

Material: Aluminum Alloy Black Anodized

SERIES 111: SINGLE SHAFT UNSUPPORTED SYSTEM



SINGLE SHAFT UNSUPPORT WITH 2 PILLOW BLOCKS

PART NO.	NOM. SHAFT	LOAD (lbf)*		DIMENSIO	N (inches)		PILLOW	
TAITI NO.	DIA. (in.)	MAX/BĽOĆK	A ±.001	В	C1	D	BLOCK**	
111-06-SXX	3/8	68	0.500	1.75	1.31	0.94	XEP-6	
111-08-SXX	1/2	175	0.687	2.00	1.69	1.25	XEP-8	
111-12-SXX	3/4	406	0.937	2.75	2.06	1.75	XEP-12	
111-16-SXX	1	725	1.187	3.25	2.81	2.19	XEP-16	
111-24-SXX	1-1/2	1,376	1.750	4.75	4.00	3.25	XEP-24	

SINGLE SHAFT UNSUPPORTED WITH TWIN PILLOW BLOCKS

PART NO.	NOM. SHAFT	LOAD (lbf)*		DIMENSION (inches)					
PART NO.	DIA. (in.)	MAX/BĽOĆK	A ±.001	В	C2	D	BLOCK**		
111-06-TXX	3/8	136	0.500	1.75	2.75	0.94	TEP-6		
111-08-TXX	1/2	350	0.687	2.00	3.50	1.25	TEP-8		
111-12-TXX	3/4	812	0.937	2.75	4.50	1.75	TEP-12		
111-16-TXX	1	1,450	1.187	3.25	6.00	2.19	TEP-16		
111-24-TXX	1-1/2	2,752	1.750	4.75	9.00	3.25	TEP-24		

XX = shaft length - see page 241. * Based on horizontal load, equally distributed to each bearing with a travel life of 2 million inches. ** See pages 231-232 for details.

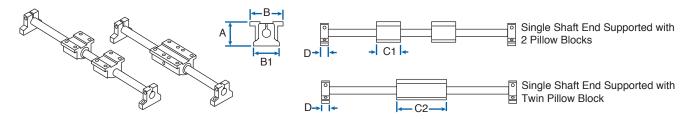
PRECISION LINEAR SLIDE SYSTEMS TECHNICAL DATA

SERIES 121 AND 131 SLIDE SYSTEMS





SERIES 121: SINGLE SHAFT END SUPPORTED SYSTEM



SINGLE SHAFT END SUPPORTED WITH 2 PILLOW BLOCKS

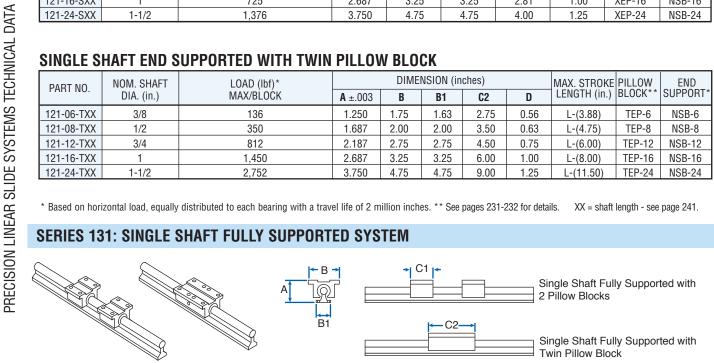
PART NO.	NOM. SHAFT	NOM. SHAFT LOAD (lbf)*				PILLOW	END		
PARTINO.	DIA. (in.)	MAX/BLOĆK	A ±.003	В	B1	C1	D	BLOCK**	SUPPORT*
121-06-SXX	3/8	68	1.250	1.75	1.63	1.31	0.56	XEP-6	NSB-6
121-08-SXX	1/2	175	1.687	2.00	2.00	1.69	0.63	XEP-8	NSB-8
121-12-SXX	3/4	406	2.187	2.75	2.75	2.06	0.75	XEP-12	NSB-12
121-16-SXX	1	725	2.687	3.25	3.25	2.81	1.00	XEP-16	NSB-16
121-24-SXX	1-1/2	1,376	3.750	4.75	4.75	4.00	1.25	XEP-24	NSB-24

SINGLE SHAFT END SUPPORTED WITH TWIN PILLOW BLOCK

PART NO.	NOM. SHAFT LOAD (lbf)*			DIMENSION (inches)					PILLOW	END	
PART NO.	DIA. (in.)	MAX/BĽOĆK	A ±.003	В	B1	C2	D	LENGTH (in.)	BLOCK**	* SUPPORT*	
121-06-TXX	3/8	136	1.250	1.75	1.63	2.75	0.56	L-(3.88)	TEP-6	NSB-6	
121-08-TXX	1/2	350	1.687	2.00	2.00	3.50	0.63	L-(4.75)	TEP-8	NSB-8	
121-12-TXX	3/4	812	2.187	2.75	2.75	4.50	0.75	L-(6.00)	TEP-12	NSB-12	
121-16-TXX	1	1,450	2.687	3.25	3.25	6.00	1.00	L-(8.00)	TEP-16	NSB-16	
121-24-TXX	1-1/2	2,752	3.750	4.75	4.75	9.00	1.25	L-(11.50)	TEP-24	NSB-24	

^{*} Based on horizontal load, equally distributed to each bearing with a travel life of 2 million inches. ** See pages 231-232 for details. XX = shaft length - see page 241.

SERIES 131: SINGLE SHAFT FULLY SUPPORTED SYSTEM



SINGLE SHAFT FULLY SUPPORTED WITH 2 PILLOW BLOCKS

PART NO.	NOM. SHAFT	LOAD (lbf)*		DIMENSION	l (inches)		PILLOW
PART NO.	DIA. (in.)	MAX/BLOĆK	A ±.003	В	C1	B1	BLOCK**
131-08-SXX	1/2	152	1.812	2.00	1.69	1.50	XEP-08-OPN
131-12-SXX	3/4	398	2.437	2.75	2.06	1.75	XEP-12-OPN
131-16-SXX	1	711	2.937	3.25	2.81	2.13	XEP-16-OPN
131-24-SXX	1-1/2	1,346	4.250	4.75	4.00	3.00	XEP-24-OPN

SINGLE SHAFT FULLY SUPPORTED WITH TWIN PILLOW BLOCK

PART NO.	NOM. SHAFT	LOAD (lbf)*		DIMENSIO	N (inches)		PILLOW	
PART NO.	DIA. (in.)	MAX/BLOĆK	A ±.003	В	C2	B1	BLOCK**	
131-08-TXX	1/2	304	1.812	2.00	3.50	1.50	TEP-08-OPN	
131-12-TXX	3/4	796	2.437	2.75	4.50	1.75	TEP-12-OPN	
131-16-TXX	1	1,422	2.937	3.25	6.00	2.13	TEP-16-OPN	
131-24-TXX	1-1/2	2,692	4.250	4.75	9.00	3.00	TEP-24-OPN	

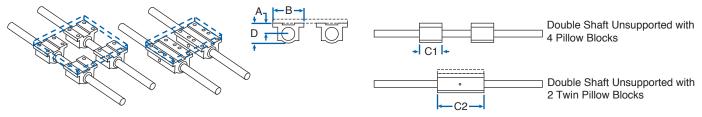
^{*} Based on horizontal load, equally distributed to each bearing with a travel life of 2 million inches. ** See pages 231-232 for details. XX = shaft length - see page 241.





SERIES 112 AND 122 SLIDE SYSTEMS

SERIES 112: DOUBLE SHAFT UNSUPPORTED SYSTEM



DOUBLE SHAFT UNSUPPORTED WITH 4 PILLOW BLOCKS

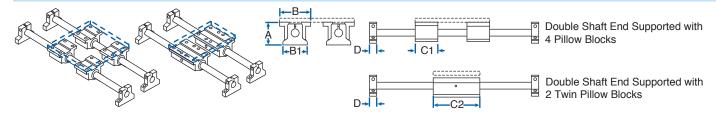
PART NO.	NOM. SHAFT	LOAD	LOAD (lbf)*		DIMENSION (inches)				
DIA. (in.)		MAX/SYSTEM	MAX/BLOCK	A ±.001	В	C1	D	BLOCK**	
112-06-SXX	3/8	272	68	0.500	1.75	1.31	0.94	XEP-6	
112-08-SXX	1/2	700	175	0.687	2.00	1.69	1.25	XEP-8	
112-12-SXX	3/4	1,624	406	0.937	2.75	2.06	1.75	XEP-12	
112-16-SXX	1	2,900	725	1.187	3.25	2.81	2.19	XEP-16	
112-24-SXX	1-1/2	5,504	1,376	1.750	4.75	4.00	3.25	XEP-24	

DOUBLE SHAFT UNSUPPORTED WITH 2 TWIN PILLOW BLOCKS

PART NO.	NOM. SHAFT	LOAD	(lbf)*		DIMENSION (inches)				
DIA. (in.)		MAX/SYSTEM	MAX/BLOCK	A ±.001	В	C2	D	BLOCK**	
112-06-TXX	3/8	272	136	0.500	1.75	2.75	0.94	TEP-6	
112-08-TXX	1/2	700	350	0.687	2.00	3.50	1.25	TEP-8	
112-12-TXX	3/4	1,624	812	0.937	2.75	4.50	1.75	TEP-12	
112-16-TXX	1	2,900	1,450	1.187	3.25	6.00	2.19	TEP-16	
112-24-TXX	1-1/2	5,504	2,752	1.750	4.75	9.00	3.25	TEP-24	

^{*} Based on horizontal load, equally distributed to each bearing with a travel life of 2 million inches. ** See pages 231-232 for details.

SERIES 122: DOUBLE SHAFT END SUPPORTED SYSTEM



DOUBLE SHAFT END SUPPORTED WITH 4 PILLOW BLOCKS

PART NO.	NOM. SHAFT	LOAD	(lbf)*			DIMENSION	I (inches)		PILLOW	END
PART NO.	DIA. (in.)	MAX/SYSTEM	MAX/BLOCK	A ±.003	В	B1	C1	D	BLOCK**	SUPPORT*
122-06-SXX	3/8	272	68	1.250	1.75	1.63	1.31	0.56	XEP-6	NSB-6
122-08-SXX	1/2	700	175	1.687	2.00	2.00	1.69	0.63	XEP-8	NSB-8
122-12-SXX	3/4	1,624	406	2.187	2.75	2.75	2.06	0.75	XEP-12	NSB-12
122-16-SXX	1	2,900	725	2.687	3.25	3.25	2.81	1.00	XEP-16	NSB-16
122-24-SXX	1-1/2	5,504	1,376	3.750	4.75	4.75	4.00	1.25	XEP-24	NSB-24

DOUBLE SHAFT END SUPPORTED WITH 2 TWIN PILLOW BLOCKS

PART NO.	NOM. SHAFT	LOAD	(lbf)*		DIME	NSION (in	ches)		MAX. STROKE		END
PART NO.	DIA. (in.)	MAX/SYSTEM	MAX/BLOCK	A ±.003	В	B1	C2	D	LENGTH (in.)	BLOCK**	SUPPORT*
122-06-TXX	3/8	272	136	1.250	1.75	1.63	2.75	0.56	L-(3.88)	TEP-6	NSB-6
122-08-TXX	1/2	700	350	1.687	2.00	2.00	3.50	0.63	L-(4.75)	TEP-8	NSB-8
122-12-TXX	3/4	1,624	812	2.187	2.75	2.75	4.50	0.75	L-(6.00)	TEP-12	NSB-12
122-16-TXX	1	2,900	1,450	2.687	3.25	3.25	6.00	1.00	L-(8.00)	TEP-16	NSB-16
122-24-TXX	1-1/2	5,504	2,752	3.750	4.75	4.75	9.00	1.25	L-(11.50)	TEP-24	NSB-24

^{*} Based on horizontal load, equally distributed to each bearing with a travel life of 2 million inches. ** See pages 231-232 for details.

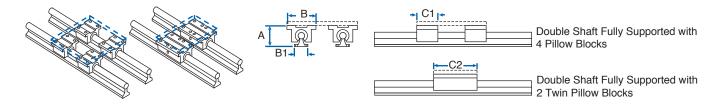
XX = shaft length - see page 241.

SERIES 132 AND 113 SLIDE SYSTEMS





SERIES 132: DOUBLE SHAFT FULLY SUPPORTED SYSTEM



DOUBLE SHAFT FULLY SUPPORTED WITH 4 PILLOW BLOCKS

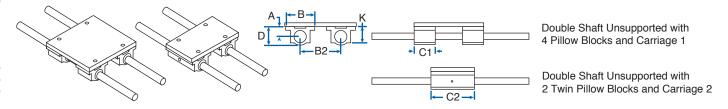
PART NO.	NOM. SHAFT	LOAD (lbf)*		LOAD (lbf)* DIMENSION (inches)						
TAITI NO.	DIA. (in.)	MAX/SYSTEM	MAX/BLOCK	A ±.003	В	B1	C1	BLOCK**		
132-08-SXX	1/2	608	152	1.812	2.00	1.50	1.69	XEP-8-OPN		
132-12-SXX	3/4	1,584	398	2.437	2.75	1.75	2.06	XEP-12-OPN		
132-16-SXX	1	2,844	711	2.937	3.25	2.13	2.81	XEP-16-OPN		
132-24-SXX	1-1/2	5,384	1,346	4.250	4.75	3.00	4.00	XEP-24-OPN		

DOUBLE SHAFT FULLY SUPPORTED WITH 2 TWIN PILLOW BLOCKS

PART NO.	NOM. SHAFT	LOAD	LOAD (lbf)* DIMENSION (inches)						
TAITI NO.	DIA. (in.)	MAX/SYSTEM	MAX/BLOCK	A ±.003	В	B1	C2	BLOCK**	
132-08-TXX	1/2	608	304	1.812	2.00	1.50	3.50	TEP-8-OPN	
132-12-TXX	3/4	1,584	796	2.437	2.75	1.75	4.50	TEP-12-OPN	
132-16-TXX	1	2,844	1,422	2.937	3.25	2.13	6.00	TEP-16-OPN	
132-24-TXX	1-1/2	5,384	2,692	4.250	4.75	3.00	9.00	TEP-24-OPN	

^{*} Based on horizontal load, equally distributed to each bearing with a travel life of 2 million inches. ** See pages 231-232 for details. XX = shaft length - see page 241.

SERIES 113: DOUBLE SHAFT UNSUPPORTED SYSTEM WITH CARRIAGE



DOUBLE SHAFT UNSUPPORTED WITH 4 PILLOW BLOCKS AND CARRIAGE 1

PART NO.	NOM. SHAFT	LOAD (lbf)*		IID	MENSION (inch	es)		PILLOW
PARTINO.	DIA. (in.)	MAX/SÝSTÉM	A ±.001	В	B2	C1	D	BLOCK**
113-08-SXX	1/2	700	0.687	2.00	3.25	1.69	1.25	XEP-8
113-12-SXX	3/4	1,624	0.937	2.75	4.50	2.06	1.75	XEP-12
113-16-SXX	1	2,900	1.187	3.25	5.50	2.81	2.19	XEP-16
113-24-SXX	1-1/2	5,504	1.750	4.75	8.00	4.00	3.25	XEP-24

DOUBLE SHAFT UNSUPPORTED WITH 2 TWIN PILLOW BLOCKS AND CARRIAGE 2

PART NO.	NOM. SHAFT	LOAD (lbf)*		DIN	MENSION (inch	es)		PILLOW
TAITI NO.	DIA. (in.)	MAX/SYSTEM	A ±.001	В	B2	C2	D	BLOCK**
113-08-TXX	1/2	700	0.687	2.00	3.25	3.50	1.25	TEP-8
113-12-TXX	3/4	1,624	0.937	2.75	4.50	4.50	1.75	TEP-12
113-16-TXX	1	2,900	1.187	3.25	5.50	6.00	2.19	TEP-16
113-24-TXX	1-1/2	5,504	1.750	4.75	8.00	9.00	3.25	TEP-24

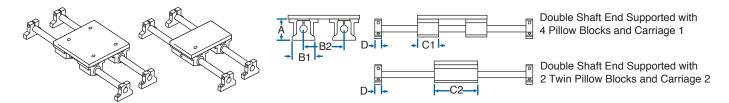
^{*} Based on horizontal load, equally distributed to each bearing with a travel life of 2 million inches. ** See pages 231-232 for details. XX = shaft length - see page 241.





SERIES 123 AND 133 SLIDE SYSTEMS

SERIES 123: DOUBLE SHAFT END SUPPORTED SYSTEM WITH CARRIAGE



DOUBLE SHAFT END SUPPORTED WITH 4 PILLOW BLOCKS AND CARRIAGE 1

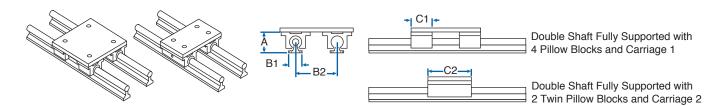
PART NO.	NOM. SHAFT	LOAD (lbf)*		PILLOW	END				
PART NO.	DIA. (in.)	MAX/SYSTÉM	A ±.003	B2	B1	C1	D	BLOCK**	SUPPORT*
123-08-SXX	1/2	700	1.687	3.25	2.00	1.69	0.63	XEP-8	NSB-8
123-12-SXX	3/4	1,624	2.187	4.50	2.75	2.06	0.75	XEP-12	NSB-12
123-16-SXX	1	2,900	2.687	5.50	3.25	2.81	1.00	XEP-16	NSB-16
123-24-SXX	1-1/2	5,504	3.750	8.00	4.75	4.00	1.25	XEP-24	NSB-24

DOUBLE SHAFT END SUPPORTED WITH 2 TWIN PILLOW BLOCKS AND CARRIAGE 2

PART NO.	NOM. SHAFT	LOAD (lbf)*		DIME	NSION (in	ches)		MAX. STROKE	PILLOW	END	
I AITI NO.	DIA. (in.)	MAX/SYSTÉM	A ±.003	B2	B1	C2	D	LENGTH (in.)	BLOCK**	SUPPORT*	
123-08-TXX	1/2	700	1.687	3.25	2.00	3.50	0.63	L-(4.75)	TEP-8	NSB-8	
123-12-TXX	3/4	1,624	2.187	4.50	2.75	4.50	0.75	L-(6.00)	TEP-12	NSB-12	
123-16-TXX	1	2,900	2.687	5.50	3.25	6.00	1.00	L-(8.00)	TEP-16	NSB-16	
123-24-TXX	1-1/2	5,504	3.750	8.00	4.75	9.00	1.25	L-(11.50)	TEP-24	NSB-24	

^{*} Based on horizontal load, equally distributed to each bearing with a travel life of 2 million inches. ** See pages 231-232 for details. XX = shaft length - see page 241.

SERIES 133: DOUBLE SHAFT FULLY SUPPORTED SYSTEM WITH CARRIAGE



DOUBLE SHAFT FULLY SUPPORTED WITH 4 PILLOW BLOCKS AND CARRIAGE 1

PART NO.	NOM. SHAFT	LOAD (lbf)*		DIMENSIO	N (inches)		PILLOW
TAITI NO.	DIA. (in.)	MAX/SYSTÉM	A ±.003	B1	B2	C1	BLOCK**
133-08-SXX	1/2	608	1.812	1.50	3.25	1.69	XEP-8-OPN
133-12-SXX	3/4	1,584	2.437	1.75	4.50	2.06	XEP-12-OPN
133-16-SXX	1	2,844	2.937	2.13	5.50	2.81	XEP-16-OPN
133-24-SXX	1-1/2	5,384	4.250	3.00	8.00	4.00	XEP-24-OPN

DOUBLE SHAFT FULLY SUPPORTED WITH 2 TWIN PILLOW BLOCKS AND CARRIAGE 2

PART NO.	NOM. SHAFT	LOAD (lbf)*		DIMENSIO	N (inches)		PILLOW
TAITI NO.	DIA. (in.)	MAX/SÝSTÉM	A ±.003	B1	B2	C2	BLOCK**
133-08-TXX	1/2	608	1.812	1.50	3.25	3.50	TEP-8-OPN
133-12-TXX	3/4	1,584	2.437	1.75	4.50	4.50	TEP-12-OPN
133-16-TXX	1	2,844	2.937	2.13	5.50	6.00	TEP-16-OPN
133-24-TXX	1-1/2	5,384	4.250	3.00	8.00	9.00	TEP-24-OPN

^{*} Based on horizontal load, equally distributed to each bearing with a travel life of 2 million inches. ** See pages 231-232 for details.

The specifications and data in this publication are believed to be accurate and reliable. However, it is the responsibility of the product user to determine the suitability of

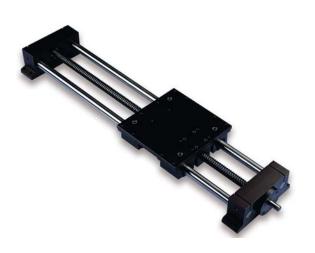
XX = shaft length - see page 241.

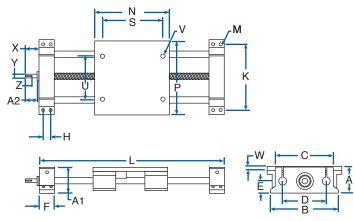
SERIES 212 SLIDE SYSTEMS





SERIES 212: DOUBLE SHAFT END SUPPORTED SYSTEM WITH BALL SCREW ASSEMBLY AND CARRIAGE





BENEFITS

PRECISION LINEAR SLIDE SYSTEMS TECHNICAL DATA

- Adaptable to any drive system
- Flexible design
- Use where end supported systems are needed
- Pre-aligned, easy installation

COMPONENTS

- 4 Linear bearing pillow blocks
- 2 Integrated end supports
- 2 HG linear shafts
- 1 carriage
- 1 ball screw assembly

DOUBLE SHAFT END SUPPORT SYSTEM WITH BALL SCREW ASSEMBLY AND CARRIAGE

	NOM.	LOAD (lbf)*	BALL**					DIMEN	SION (in	ches)					MIN. "L"
PART NO.	SHAFT DIA.	MAX SYSTEM	SCREW DIA.	A ± .003	A1	В	С	D	Е	F	H ±.010	K ±.010	BOLT	/I HOLE	DIMENSION (in.)
212-08-LXX	1/2	700	1/2	2.187	2.38	5.30	4.25	3.25	1.125	1.50	.75	4.80	#8	.19	TRAVEL+8.50
212-12-LXX	3/4	1,624	3/4	2.937	2.88	7.20	6.00	4.50	1.500	2.00	1.00	6.70	#10	.22	TRAVEL+11.50
212-16-LXX	1	2,900	1	3.437	3.45	8.75	7.25	5.50	1.750	2.20	1.20	8.00	1/4	.28	TRAVEL+13.40
212-24-LXX	1-1/2	5,504	1-1/2	5.000	4.97	13.00	10.75	8.00	2.500	2.80	1.50	12.00	5/16	.34	TRAVEL+18.60

^{*} Based on horizontal load, equally distributed to each bearing with a travel life of 2 million inches. XX = shaft length - see page 241.

MOUNTING CARRIAGE TOP FOR 212 & 252

PART NO.	DIMENS	ION (inche	es)			
FANT NO.	N	Р	S	U	V	W
2X2-08-LXX	5.50	5.50	4.50	3.25	1/4-20	.38
2X2-12-LXX	7.50	7.50	6.00	4.50	5/16-18	.50
2X2-16-LXX	9.00	9.00	7.00	5.50	3/8-16	.50
2X2-24-LXX	13.00	13.00	10.00	8.00	1/2-13	.75

SCREW & SHAFT EXTENSION FOR 212 & 252

PART NO.	DIMENSION (inches)										
PART NO.	Screw Size	Х	Υ	Z	A2						
2X2-08-LXX	0500-0500 SRT	1.00	.250	.51 x .095	.665						
2X2-12-LXX	0750-0200 SRT	1.50	.500	.81 x .140	1.02						
2X2-16-LXX	1000-1000 SRT	1.74	.625	1.03 x .188	1.26						
2X2-24-LXX	1500-1000 SRT	2.32	.750	1.41 x .188	1.657						

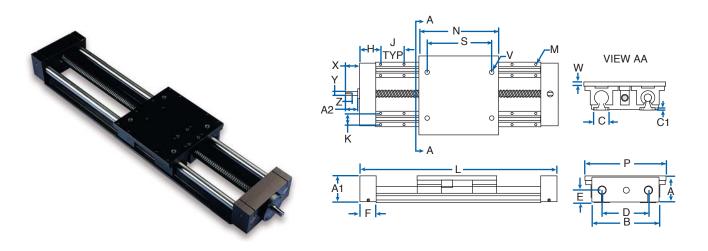
^{**}Refer to page 248 for screw selection.





SERIES 252 SLIDE SYSTEMS

SERIES 252: DOUBLE SHAFT FULLY SUPPORTED SYSTEM WITH END SUPPORTS, BALL SCREW ASSEMBLY AND CARRIAGE



BENEFITS

- Adaptable to any drive system
- Flexible design
- Use where fully supported systems are needed
- Pre-aligned, easy installation

COMPONENTS

- 4 Linear bearing pillow blocks (open)
- 2 Integrated end supports
- 2 HG linear shafts
- 1 carriage, 1 ball screw assembly
- 2 shaft support rails

DOUBLE SHAFT FULLY SUPPORTED SYSTEM WITH END SUPPORTS, BALL SCREW ASS'Y & CARRIAGE

						DIMENSION (inches)										MIN. "L"	
PART NO.	SHAFT DIA.	MAX SYSTEM	BALL SCREW	A ±.003	A1	В	D	Е	F	C	C1	**H	J ±.010	K ±.010	BOLT	M HOLE	DIMENSION (in.)
252-08-LXX	1/2	608	.5050	2.187	2.13	4.25	3.25	1.125	1.50	1.50	.187	2.00	4.00	1.00	#6	.17	TRAVEL+8.50
252-12-LXX	3/4	1,584	.7520	2.938	2.75	6.00	4.50	1.500	2.00	1.75	.250	3.00	6.00	1.25	#10	.22	TRAVEL+11.50
252-16-LXX	1	2,844	1.00 - 1.00	3.438	3.25	7.25	5.50	1.750	2.20	2.13	.250	3.00	6.00	1.50	1/4	.28	TRAVEL+13.40
252-24-LXX	1-1/2	5,384	1.50 - 1.00	5.000	4.88	10.75	8.00	2.500	2.80	3.00	.375	4.00	8.00	2.25	3/8	.41	TRAVEL+18.60

^{*}Based on horizontal load, equally distributed to each bearing with a travel life of 2 million inches

DOUBLE SHAFT SYSTEM STANDARD LENGTH FOR 212 & 252

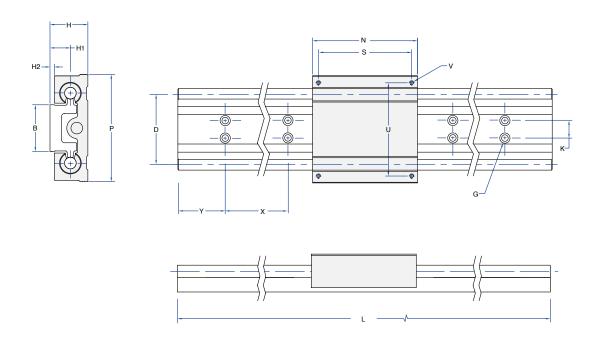
	PART NO.	18"	24"	30"	32"	36"	40"	42"	48"	54"	56"	60"	64"	66"	72"
	2X2-08-LXX							•	•						
ı	2X2-12-LXX														
ı	2X2-16-LXX														
ı	2X2-24-I XX														

System 252 only

^{**} For 18", 30" & 42" std. lengths, H=3.00
If non-standard length "H" is symmetrical

new

SERIES 302: TWIN SHAFT FULLY SUPPORTED SYSTEM WITH CARRIAGE



BENEFITS

PRECISION LINEAR SLIDE SYSTEMS TECHNICAL DATA

- Ready-to-use system support
- Fully supported
- Pre-aligned for accuracy and ease of use
- · Capable of carrying load in every direction and movement about all axes
- · Adaptable to any drive system

COMPONENTS

- One integrated rail with two precision shafts
- One carriage with four open ball bearings

TWIN SHAFT FULLY SUPPORTED SYSTEM WITH CARRIAGE

PART	NOM. SHAFT	В	Р	Н	N	H1	H2	D	S	U	UV		L*		Х	К	G
NO.	DIA.											min	max				for
302-08-LXX	0.5	2	4.6	1.625	4.5	0.875	0.195	3	4	4	#10-32	12	48	2	4	0.75	1/4 BOLT
302-12-LXX	0.75	2.63	6.1	2.125	6	1.125	0.195	4	5.25	5.25	1/4-20	18	72	3	6	1	5/16 BOLT
302-16-LXX	1	3.25	7.6	2.625	7.5	1.375	0.185	5	6.75	6.75	5/16-18	18	96	3	6	1.25	3/8 BOLT

^{*} Length increases by a multiple of "X" up to the maximum length. For longer systems, or systems with non-standard lengths, please inquire. XX=shaft length

[†] If non-standard length "Y" is symmetrical

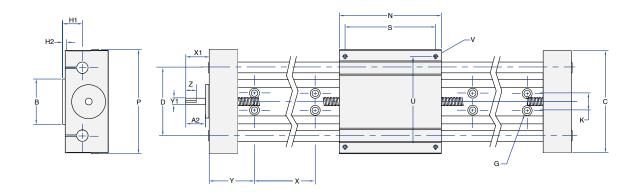
PRECISION LINEAR

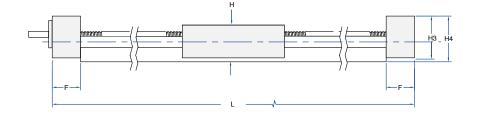
SLIDE SYSTEMS



PRECISION LINEAR SLIDE SYSTEMS TECHNICAL DATA

SERIES 312: TWIN SHAFT FULLY SUPPORTED SYSTEM WITH END SUPPORT, SCREW ASSEMBLY AND CARRIAGE





BENEFITS

- Ready-to-use system support
- Fully supported
- Pre-aligned for accuracy and ease of use
- Capable of carrying load in every direction and movement about all axes
- Integrated ball screw drive with standardized motor mount interface

COMPONENTS

- One integrated rail with two precision shafts
- One carriage with four open ball bearings
- One ball screw assembly
- Two end supports with bearings and motor interface.

TWIN SHAFT FULLY SUPPORTED SYSTEM WITH END SUPPORT, SCREW ASS'Y & CARRIAGE

PAR ⁻ NO.		NOM. SHAFT DIA.	BALL* SCREW DIA.	В	Р	Н	N	H1	H2	НЗ	H4	С	D	S	U	V	F		** max	Υ [†]	Χ	K	G for
312-08-	-LXX	0.5	3/8	2	4.6	1.625	4.5	0.875	0.195	1.9	2.02	4.5	3	4	#10-32	2	1.25	12	48	2	4	0.75	1/4 BOLT
312-12-	-LXX	0.75	1/2	2.63	6.1	2.125	6	1.125	0.195	2.37	2.62	6	4	5.25	1/4-2	3	1.5	18	72	3	6	1	5/16 BOLT
312-16-	-LXX	1	3/4	3.25	7.6	2.625	7.5	1.375	0.185	3.37	3.49	7	5	6.75	5/16-18	3	2	18	96	3	6	1.25	3/8 BOLT

XX=shaft length "L"

*Refer to page 248 for screw selection.

SHAFT EXTENSION FOR 312

PART NO.	DIMENSION (inches)										
PART NO.	X1	Y1	Z	A2							
312-08	0.875	0.186	0.34 x 0.063	0.500							
312-12	1.00	0.250	0.51 x 0.095	0.665							
312-16	1.50	0.500	0.81 x 0.140	1.02							

^{**}Length increases by a multiple of "X" up to the maximum length. For longer systems, or systems with non-standard lengths, please inquire.

[†] If non-standard length "Y" is symmetrical.

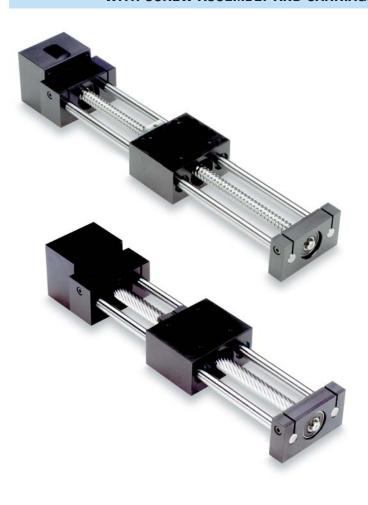
PRECISION LINEAR SLIDE SYSTEMS TECHNICAL DATA





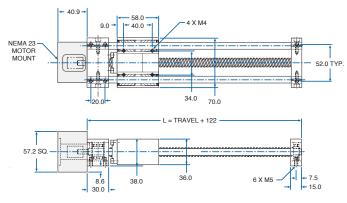


MM SLIDE™ DOUBLE SHAFT END SUPPORTED SYSTEM WITH SCREW ASSEMBLY AND CARRIAGE



MM SLIDE™ **SYSTEM FEATURES:**

- The right solution for accurate positioning in limited space applications.
- Lightweight rigid aluminum construction provides high system strength and stiffness.
- Carriage plate includes hole patterns for easy payload integration or X-Y axis mounting.
- A wide variety of metric screw diameters, leads and nut styles are available to accommodate a wide range of performance requirements.
- Adaptable motor mounts provide flexibility in motor/control options.
- MM Slide™ includes one carriage/linear bearing block assembly (contains 4 EXCEL™ linear bearings), two integrated end supports, two HG linear shafts and one lead screw assembly.



MM SLID	E SCREW	SELEC	TION		
SLIDE PART NO.	Nominal Shaft Dia. (mm)	Load (N)	Metric Screw	Page	L Max. (mm)
	9.5		Speedy 11 x 60	55	
			Speedy 13 x 70	58	
		1174	Speedy 14 x 8	59	525
012-06-LXX			Speedy 14 x 18	59	
			Speedy 14 x 30	59	
			Carry 12 x 4	158	
			Carry 12 x 5	158	

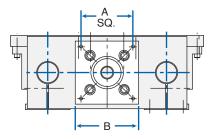
XX=OAL [mm]

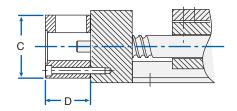






MOTOR ADAPTERS: SERIES 212, 252 and MM SLIDE™





SLIDE SYSTEM ACCESSORIES

PowerTrax™ Slide System Motor Adapters allow for direct connection of a motor to a slide. Custom configurations are available, contact Nook Industries.

- Coupling is included
- Available for Series 212, 252, 312 and MM Slide™
- Aluminum construction

MOTOR A	ADAPTOR	S FOR 2	212, 25	2 & 312)						
SLIDE		DIMENSION (inches)									
PART NO.	Frame Size	Α	В	C	D						
-08	23	1.86	2.25	2.25	1.65						
-12	23	1.86	2.25	2.25	1.85						
-16	34	2.74	3.25	3.25	2.75						
-24	42	3.50	4.25	4.25	2.98						

MOTOR ADAPTORS FOR MM SLIDE™									
SLIDE		DIMENSI	ON (mm)						
PART NO.	Frame Size	Α	В	C	D				
012-06	23	47.25	57.2	57.2	40.9				

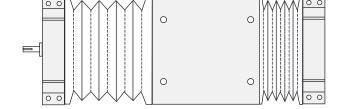
Contact Nook Industries for additional sizes.

BELLOW BOOTS: SERIES 212 and 252

PowerTrax™ Slide System Bellows Boots protect slide components from contaminants. Custom configurations are available, contact Nook Industries, Inc.

- Available for Series 212 and 252
- PVC coated nylon
- Boot is fastened to the end blocks and carriage plate with hook and loop fasteners.

NOTE: Travel must be adjusted to accommodate retracted boot. Calculation per each boot is: Retracted Boot = ("Travel" x .14")+.25



EXAMPLE 212-08-LXX with 24" Travel:

"L" = (Travel + 8.5") + Ret. Boot + Ret. Boot
$$39.7$$
" = $(24$ " + 8.5 ") + 3.6 " + 3.6 "

(See page 228-229 for 212 and 252 Series min "L" dimension.)