

# Servo, Linear & Motion Control Products

**BALDOR**  
MOTORS • DRIVES • GENERATORS

CA1202

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## 7-Axis Motion Controller

**Features:** Economical servo and stepper motion controller for up to 3 axes of servo and 4 axes of steppers. Programmed in Baldor's easy-to-use multi-tasking MintMT or "C".



### NextMove ESB

Number of Axis	Catalog Number	List Price	Catalog Number	List Price	Mult. Sym.
7	NSB002-501 ①	2477	NSB003-501 ① ③	2477	E5
7	NSB002-502 ②	2477	NSB003-502 ② ③	2477	E5

- ① USB/RS232
- ② USB/RS485
- ③ For use with DSM stepper/driver

Shaded areas are stocked products.

## Ethernet Motion Controller

**Features:** 16 Axes of interpolated motion; connect up to 240 ethernet devices; multitasking mint, ActiveX® or 'C' programmable.



### NextMove e100

Number of Axis	Catalog Number	List Price	Catalog Number	List Price	Mult. Sym.
8	NXE100-1608 ①	3386	NXE100-1608S ②	3386	E5
12	NXE100-1612 ①	4027	NXE100-1612S ②	4027	E5
16	NXE100-1616 ①	4668	NXE100-1616S ②	4668	E5

- ① Differential stepper outputs
- ② For use with DSM stepper/driver

Motion Controls

AC Controls

AC Motors

DC Controls

DC Motors

Linear Motors

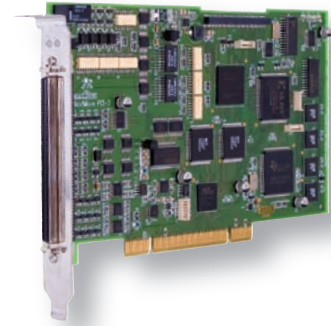
Linear Stages

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## PCI-2 1-8 Axis Motion Controller



**Features:** 1-8 axis PCI-bus motion controller (12 axes with optional expansion card) providing pin compatibility with PCI-1, however provides twice the performance.



### NextMovePCI-2

Number of Axis	Catalog Number (PNP Outputs)	List Price	Catalog Number (NPN Outputs)	List Price	Mult. Sym.
1 ①	PCI201-501	2189	PCI201-511	2189	E5
2 ①	PCI201-502	2335	PCI201-512	2335	E5
3 ①	PCI201-503	2481	PCI201-513	2481	E5
4 ①	PCI201-504	2628	PCI201-514	2628	E5
8 ②	PCI210-508	3211	PCI201-518	3211	E5

**NOTE:** ① User configurable for Servo or Stepper.  
② 4-Axis Servo and 4-Axis Stepper.

## 2-4 Axis Motion Controller



**Features:** 2-4 axis motion controller providing high speed interpolation between all axes, or synchronization with an external master encoder, high speed DSP processor; onboard digital and analog I/O; CAN for distributed control; multi-tasking MintMT or 'C' programmable.



### NextMoveBX<sup>II</sup>

Number of Axes	Catalog Number	List Price	Multiplier Symbol
2	NMX004-501	2874	E5
3	NMX004-502	3332	E5
4	NMX004-503	3791	E5

Shaded areas are stocked products.



# 1 Axis Motion Controller & Brushless Servo Control

**Features:** Integrates a powerful motion controller and brushless AC servo drive into a compact package. Programmable in multi-tasking MintMT, which coordinates motion HMI and PLC tasks. Supports positional moves, CAMS, flying shears, and software gearboxes. Software provided to auto-tune, configure and program. Fully protected unit. Can be used for brushless servo or linear motor.



## MintDrive<sup>II</sup> Resolver Feedback-Based Units

Input Voltage		115 VAC 1 $\phi$	List Price	230 VAC 1 $\phi$	List Price	230-460 VAC 3 $\phi$	List Price	Mult. Sym.
Output Current		160VDC		300VDC		300-650 VDC		
Cont.	Peak	Catalog Number ②		Catalog Number ②		Catalog Number ②		
<b>Customer must supply +24 VDC for logic power</b>								
2.5	5	MDH1A02TB-RN23 ③	1840	MDH2A02TB-RN23 ③	1840	MDH4A02TB-RN23 ③	2461	E5
5	10	MDH1A05TB-RN23 ③	2008	MDH2A05TB-RN23 ③	2008	MDH4A05TB-RN23 ③	2514	E5
7.5	15	MDH1A07TR-RN23 ①	2126	MDH2A07TR-RN23 ①	2126	MDH4A07TR-RN23 ①	2551	E5
15	30	-	-	-	-	MDH4A15TR-RN23 ①	2981	E5
20	40	-	-	-	-	MDH4A20TR-RN23 ①	3369	E5
27.5	55	-	-	-	-	MDH4A27TR-RN23 ①	3754	E5
<b>With 2 CAN ports and Extra I/O - Customer must supply +24 VDC for logic power</b>								
2.5	5	MDH1A02TB-RB23 ③	2281	MDH2A02TB-RB23 ③	2281	MDH4A02TB-RB23 ③	2902	E5
5	10	MDH1A05TB-RB23 ③	2449	MDH2A05TB-RB23 ③	2449	MDH4A05TB-RB23 ③	2955	E5
7.5	15	MDH1A07TR-RB23 ①	2567	MDH2A07TR-RB23 ①	2567	MDH4A07TR-RB23 ①	2992	E5
15	30	-	-	-	-	MDH4A15TR-RB23 ①	3422	E5
20	40	-	-	-	-	MDH4A20TR-RB23 ①	3810	E5
27.5	55	-	-	-	-	MDH4A27TR-RB23 ①	4195	E5

## MintDrive<sup>II</sup> Encoder Feedback-Based Units

<b>Customer must supply +24 VDC for logic power</b>								
2.5	5	MDH1A02TB-EN23 ③	1745	MDH2A02TB-EN23 ③	1745	MDH4A02TB-EN23 ③	2365	E5
5	10	MDH1A05TB-EN23 ③	1913	MDH2A05TB-EN23 ③	1913	MDH4A05TB-EN23 ③	2419	E5
7.5	15	MDH1A07TR-EN23 ①	2030	MDH2A07TR-EN23 ①	2030	MDH4A07TR-EN23 ①	2455	E5
15	30	-	-	-	-	MDH4A15TR-EN23 ①	2886	E5
20	40	-	-	-	-	MDH4A20TR-EN23 ①	3273	E5
27.5	55	-	-	-	-	MDH4A27TR-EN23 ①	3659	E5
<b>With 2 CAN ports and Extra I/O - Customer must supply +24 VDC for logic power</b>								
2.5	5	MDH1A02TB-EB23 ③	2186	MDH2A02TB-EB23 ③	2186	MDH4A02TB-EB23 ③	2806	E5
5	10	MDH1A05TB-EB23 ③	2354	MDH2A05TB-EB23 ③	2354	MDH4A05TB-EB23 ③	2860	E5
7.5	15	MDH1A07TR-EB23 ①	2471	MDH2A07TR-EB23 ①	2471	MDH4A07TR-EB23 ①	2896	E5
15	30	-	-	-	-	MDH4A15TR-EB23 ①	3327	E5
20	40	-	-	-	-	MDH4A20TR-EB23 ①	3714	E5
27.5	55	-	-	-	-	MDH4A27TR-EB23 ①	4100	E5

- NOTES:**
- ① Order regen resistor separately.
  - ② 24V required for operation of I/Os (customer supplied).
  - ③ 2.5 amp models have internal 20W 175 ohm (115/230 VAC) or 300W 200 ohm (230-460 VAC) regen resistor. 5 amp models have internal 40W 90 ohm (115/230 VAC) or 300W 200 ohm (230-460 VAC) regen resistor.
  - ④ Order encoder model for operation with linear motors.
  - ⑤ Order motor and feedback cables separately.
  - ⑥ Units with BUS Option N have 8/3 I/O and no CAN ports.
  - ⑦ Price of - RN20 same as - RN23; Price of - EN20 same as - EN23.
  - ⑧ For complete details of Catalog I/D, see page 8.

Shaded areas are stocked products.

# 1 Axis Pre-Set Move and Brushless Servo Control

**Features:** Integrates a motion controller and brushless AC servo drive into a compact package capable of 16 pre-set moves. The moves are easily set up in a table, and may be incremental or absolute. Additionally, contains 64K of memory to support single task programming for gearing applications or point-to-point moves. Windows® software provided to auto-tune and configure. Fully protected unit. Can be used for brushless servo or linear motors.



## Flex+Drive<sup>II</sup> Resolver Feedback-Based Units

Input Voltage		115 VAC 1 $\phi$		List Price	230 VAC 1 $\phi$		List Price	230-460 VAC 3 $\phi$		List Price	Mult. Sym.
Output Current		160VDC			300VDC			300-650 VDC			
Cont.	Peak	Catalog Number ②			Catalog Number ②			Catalog Number ②			
<b>Customer must supply +24 VDC for logic power</b>											
2.5	5	FPH1A02TB-RN23 ③		1601	FPH2A02TB-RN23 ③		1601	FPH4A02TB-RN23 ③		2236	E5
5	10	FPH1A05TB-RN23 ③		1771	FPH2A05TB-RN23 ③		1771	FPH4A05TB-RN23 ③		2292	E5
7.5	15	FPH1A07TR-RN23 ①		1887	FPH2A07TR-RN23 ①		1887	FPH4A07TR-RN23 ①		2341	E5
15	30	-		-	FPH2A15TR-RN23 ①⑦		2585	FPH4A15TR-RN23 ①		2771	E5
20	40	-		-	-		-	FPH4A20TR-RN23 ①		3159	E5
27.5	55	-		-	-		-	FPH4A27TR-RN23 ①		3545	E5
<b>With 1 CAN port and Extra I/O – Customer must supply +24 VDC for logic power</b>											
2.5	5	FPH1A02TB-RB23 ③		2042	FPH2A02TB-RB23 ③		2042	FPH4A02TB-RB23 ③		2677	E5
5	10	FPH1A05TB-RB23 ③		2212	FPH2A05TB-RB23 ③		2212	FPH4A05TB-RB23 ③		2733	E5
7.5	15	FPH1A07TR-RB23 ①		2328	FPH2A07TR-RB23 ①		2328	FPH4A07TR-RB23 ①		2782	E5
15	30	-		-	FPH2A15TR-RB23 ①⑦		3026	FPH4A15TR-RB23 ①		3212	E5
20	40	-		-	-		-	FPH4A20TR-RB23 ①		3600	E5
27.5	55	-		-	-		-	FPH4A27TR-RB23 ①		3986	E5

## Flex+Drive<sup>II</sup> Encoder Feedback-Based Units

<b>Customer must supply +24 VDC for logic power</b>											
2.5	5	FPH1A02TB-EN23 ③		1505	FPH2A02TB-EN23 ③		1505	FPH4A02TB-EN23 ③		2140	E5
5	10	FPH1A05TB-EN23 ③		1675	FPH2A05TB-EN23 ③		1675	FPH4A05TB-EN23 ③		2196	E5
7.5	15	FPH1A07TR-EN23 ①		1792	FPH2A07TR-EN23 ①		1792	FPH4A07TR-EN23 ①		2245	E5
15	30	-		-	FPH2A15TR-EN23 ①⑦		2489	FPH4A15TR-EN23 ①		2676	E5
20	40	-		-	-		-	FPH4A20TR-EN23 ①		3063	E5
27.5	55	-		-	-		-	FPH4A27TR-EN23 ①		3450	E5
<b>With 1 CAN port and Extra I/O – Customer must supply +24 VDC for logic power</b>											
2.5	5	FPH1A02TB-EB23 ③		1946	FPH2A02TB-EB23 ③		1946	FPH4A02TB-EB23 ③		2581	E5
5	10	FPH1A05TB-EB23 ③		2116	FPH2A05TB-EB23 ③		2116	FPH4A05TB-EB23 ③		2637	E5
7.5	15	FPH1A07TR-EB23 ①		2233	FPH2A07TR-EB23 ①		2233	FPH4A07TR-EB23 ①		2687	E5
15	30	-		-	-		-	FPH4A15TR-EB23 ①		3117	E5
20	40	-		-	-		-	FPH4A20TR-EB23 ①		3504	E5
27.5	55	-		-	-		-	FPH4A27TR-EB23 ①		3891	E5

- NOTES:**
- ① Order regen resistor separately.
  - ② 24V required for operation of I/Os (customer supplied).
  - ③ 2.5 amp models have internal 20W 175 ohm (115/230 VAC) or 300W 200 ohm (230-460 VAC) regen resistor. 5 amp models have internal 40W 90 ohm (115/230 VAC) or 300W 200 ohm (230-460 VAC) regen resistor.
  - ④ Order encoder model for operation with linear motors.
  - ⑤ Order motor and feedback cables separately.
  - ⑥ Units with BUS Option N have 8/3 I/O and no CAN ports.
  - ⑦ 3-Phase Input.
  - ⑧ Price of - RN20 same as - RN23; Price of - EN20 same as - EN23.
  - ⑨ For complete details of Catalog I/D, see page 8.
- Shaded areas are stocked products.**



## Brushless Servo Control

**Features:** Accepts a variety of input command signals: industry standard  $\pm 10$  Vdc, or pulse and direction, or electronic handwheel. Software provided to auto-tune and configure. Fully protected unit. Can be used for brushless servo or linear motors.



## FlexDrive<sup>II</sup> Resolver Feedback-Based Units

Input Voltage		115 VAC 1 $\phi$		List Price	230 VAC 1 $\phi$		List Price	230-460 VAC 3 $\phi$		List Price	Mult. Sym.
Output Current		160VDC			300VDC			300-650 VDC			
Cont.	Peak	Catalog Number ②			Catalog Number ②			Catalog Number ②			
<b>Customer must supply +24 VDC for logic power</b>											
2.5	5	FDH1A02TB-RN23 ③	1459	FDH2A02TB-RN23 ③	1459	FDH4A02TB-RN23 ③	2011	E3			
5	10	FDH1A05TB-RN23 ③	1533	FDH2A05TB-RN23 ③	1533	FDH4A05TB-RN23 ③	2071	E3			
7.5	15	FDH1A07TR-RN23 ①	1651	FDH2A07TR-RN23 ①	1651	FDH4A07TR-RN23 ①	2133	E3			
15	30	-	-	FDH2A15TR-RN23	2347	FDH4A15TR-RN23 ①	2564	E3			
20	40	-	-	-	-	FDH4A20TR-RN23 ①	2951	E3			
27.5	55	-	-	-	-	FDH4A27TR-RN23 ①	3336	E3			

## FlexDrive<sup>II</sup> Encoder Feedback-Based Units

<b>Customer must supply +24 VDC for logic power</b>											
Cont.	Peak	Catalog Number ②		List Price	Catalog Number ②		List Price	Catalog Number ②		List Price	Mult. Sym.
2.5	5	FDH1A02TB-EN23 ③	1363	FDH2A02TB-EN23 ③	1363	FDH4A02TB-EN23 ③	1916	E3			
5	10	FDH1A05TB-EN23 ③	1438	FDH2A05TB-EN23 ③	1438	FDH4A05TB-EN23 ③	1976	E3			
7.5	15	FDH1A07TR-EN23 ①	1556	FDH2A07TR-EN23 ①	1556	FDH4A07TR-EN23 ①	2037	E3			
15	20	-	-	FDH2A15TR-EN23 ①	2252	FDH4A15TR-EN23 ①	2468	E3			
20	40	-	-	-	-	FDH4A20TR-EN23 ①	2855	E3			
27.5	55	-	-	-	-	FDH4A27TR-EN23 ①	3241	E3			

- NOTES:**
- ① Order regen resistor separately.
  - ② 24V required for operation of I/Os (customer supplied).
  - ③ 2.5 amp models have internal 20W 175 ohm (115/230 VAC) or 300W 200 ohm (230-460 VAC) regen resistor.  
5 amp models have internal 40W 90 ohm (115/230 VAC) or 300W 200 ohm (230-460 VAC) regen resistor.
  - 4) Order encoder model for operation with linear motors.
  - 5) Order motor and feedback cables separately.
  - 6) Units with BUS Option N have 8/3 I/O and no CAN ports.
  - 7) Price of - RN20 same as - RN23; Price of - EN20 same as - EN23.
  - 8) For complete details of Catalog I/D, see page 8.
- Shaded areas are stocked products.**

Motion Controls

AC Controls

AC Motors

DC Controls

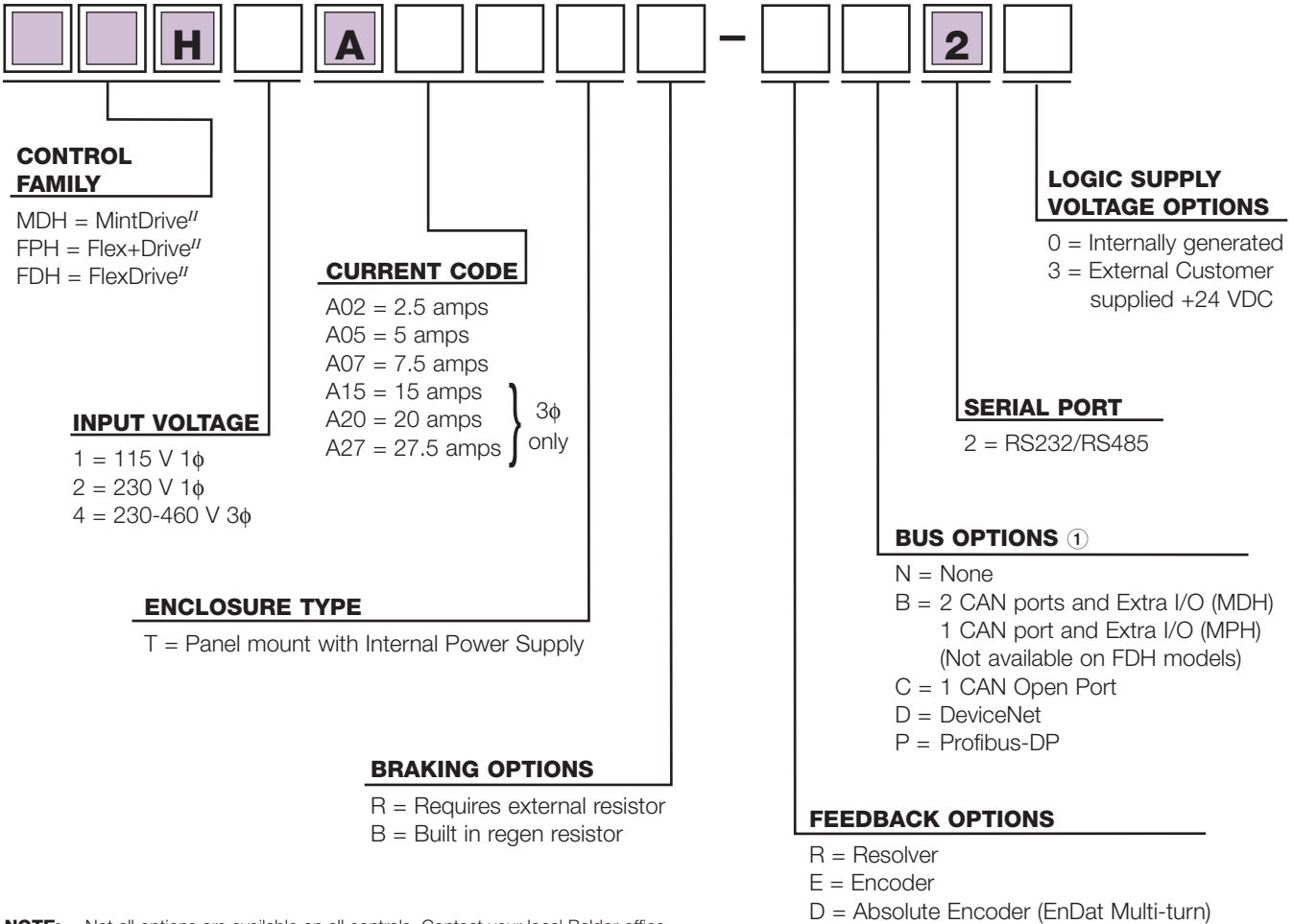
DC Motors

Linear Motors

Linear Stages

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# Catalog Identification Matrix



## Options Chart - List Price Adder

Description	Code	List Price Adder
<b>Feedback Options</b>		
Resolver	R	96
Encoder	E	N/C
Absolute Encoder (En Dat)	D	96
<b>Bus Options</b>		
None	N	STD
2 CAN + Extra I/O (Not available on FDH)	B	441
1 CAN channel	C	236
DeviceNet	D	451
Profibus	P	410
<b>Serial Port Options</b>		
RS232 / RS485	2	STD
<b>Logic Voltage Supply Options</b>		
Internally Generated	0	STD
External Customer Supplied +24VDC	3	N/C

**NOTE:** STD = Standard, N/C = No Charge.

## Accessories

Expansion I/O Modules for NextMove PCI-2, NextMove PCI, NextMoveBX <sup>II</sup> , NextMoveESB and MintDrive <sup>II</sup>	Catalog Number	List Price	Multiplier Symbol
Baldor CAN Expansion 8 Digital Inputs	ION001-501	414	E5
Baldor CAN Expansion 8 Digital Outputs	ION003-501	414	E5
Baldor CAN Expansion 8 Relay Outputs	ION002-501	414	E5
Baldor CAN Expansion 24 Inputs, 24 Outputs	ION004-501	807	E5
<b>NextMove PCI-2</b>			
Expansion Card, 4 axes – servo/stepper (PNP output) <sup>④</sup>	PCI202-504	599	E5
Expansion Card, 4 axes – servo/stepper (NPN output) <sup>④</sup>	PCI202-514	599	E5
Breakout Unit, with one part connectors <sup>③④</sup>	PCI003-501	749	E5
Breakout Unit, with two part connectors <sup>③④</sup>	PCI003-502	877	E5
Expansion Board Interconnect	POI225-505	91	E5
<b>NextMove PCI</b>			
Expansion Card, 4 axes – servo/stepper, user configured <sup>②</sup>	PCI002-501	1350	E5
Expansion Card, 8 axes – 4 servo and 4 stepper <sup>②</sup>	PCI002-502	1568	E5
Breakout Unit – for controller & expansion cards <sup>①</sup> (100 pin cable required)	PCI003-501	749	E5
Breakout Unit – with removable screw terminals <sup>①</sup> (100 pin cable required)	PCI003-502	877	E5
Expansion Bridge for connecting 1 expansion card	OPT025-504	75	E5
<b>NextMove PCI and NextMove ESB</b>			
MintNC Software for HPGL, DXF and G-code	MNC001-501	2498	E8
<b>MintDrive<sup>II</sup> and Flex+Drive<sup>II</sup></b>			
Auxiliary I/O Breakout Board for CAN FieldBus	OPT017-501	318	E5
Resolver 9-15 Pin Converter	OPT026-501	104	E8
Auxiliary I/O Breakout Board Cable for OPT017-501 – 6.5 feet (2 meters)	CBL022-501	133	E8
<b>Operator Panels for NextMove PCI-2, NextMove PCI, NextMoveBX<sup>II</sup>, NextMoveESB, MintDrive<sup>II</sup> and Flex+Drive<sup>II</sup></b>			
Baldor CAN Operator Panel (3 axis)	KPD002-501	776	E5
Baldor CAN Operator Panel (4 axis)	KPD002-505	1175	E5
HMI Operator Panel (4x20 character LCD display)	KPD-KG420-10	661	E5
HMI Operator Panel (4x20 character LCD + numeric keypad)	KPD-KG420-20	701	E5
HMI Operator Panel (4x20 character LCD + numeric and function keypad)	KPD-KG420-30	1321	E5
HMI Operator Panel (8x45 character LCD + numeric and function keys)	KPD-KG840-10	1823	E5
HMI Operator Panel (3.9" touch screen monochrome)	KPD-TS03M-10	1083	E5
HMI Operator Panel (5.6" touch screen monochrome)	KPD-TS05M-10	1477	E5
HMI Operator Panel (5.6" touch screen color STN)	KPD-TS05C-10	2749	E5
HMI Operator Panel (10" touch screen color TFT)	KPD-TS10C-10	5903	E5
HMI Operator Panel (12.1" touch screen color TFT)	KPD-TS12C-10	7479	E5
CANopen Module for HMI Panel	KPD-OPTC	393	E5
Gender Changer for use with HMI and RS232 Cable (order separately)	OPT033-501	13	E8
RS232 Cable from PC to any HMI Panel – 3 meters	CBL034-501	117	E8

- NOTE:** <sup>①</sup> NextMove PCI Breakout Module shipped with Isolated CAN Module OPT025-502 fitted to J11-CANopen slot non-isolated CAN Module OPT 025-503 fitted to J14 - Baldor CAN Stepper output module fitted to J15/J16.  
<sup>②</sup> NextMove PCI Expansion card shipped with single Bridge Connector OPT025-504.  
<sup>③</sup> NextMove PCI-2 Breakout Module shipped with Isolated CAN Module fitted to J11 (CANopen slot), Non-Isolated CAN Module fitted to connector J14 (Baldor CAN) and Stepper output module fitted to connectors J15/J16.  
<sup>④</sup> NextMove PCI-2 Expansion card shipped with single interconnect board. OPT225-505 must be ordered if two expansion boards are fitted.

Motion Controls  
AC Controls  
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## Accessories

For use with NextMove PCI, NextMoveBX <sup>II</sup> and MintDrive <sup>II</sup>	Length		Catalog Number	List Price	Multiplier Symbol
	Meters	Feet			
Baldor CAN Cables	0.25	0.8	CBL004-501	51	E8
	0.50	1.6	CBL004-502	51	E8
	1	3.2	CBL004-503	53	E8
	2	6.5	CBL004-504	58	E8
	3	9.8	CBL004-505	63	E8
	5	16.3	CBL004-506	90	E8
	10	32.7	CBL004-507	132	E8
	25	81.8	CBL004-508	180	E8
Drive to Motion Controller	1	3.2	CBL010MF-E	98	E8
Cables for use with 23H (DB9 & Flying leads)	2	6.5	CBL020MF-E	130	E8
	10	32.7	CBL100MF-E	404	E8
	20	65.4	CBL200MF-E	783	E8
Drive to Motion Controller	1	3.2	CBL010MF-E3B	172	E8
Cables for use with FlexDrive <sup>II</sup> (DB9 both ends)	2	6.5	CBL020MF-E3B	206	E8
<b>NextMovePCI</b>					
100 Pin Breakout Cables	1	3.2	CBL021-501	290	E8
	1.5	4.9	CBL021-502	342	E8
	3	9.8	CBL021-503	415	E8
<b>NextMoveBX<sup>II</sup>, MintDrive<sup>II</sup> and MicroFlex</b>					
RS232 Serial Cable for use with PC	3	9.8	CBL001-501	103	E8

## Regen Resistors For use with MintDrive<sup>II</sup>, Flex+Drive<sup>II</sup> and FlexDrive<sup>II</sup>

Control Continuous Current Rating	Input Voltages						List Price	Mult. Sym.
	115 VAC Regen Resistor		230 VAC Regen Resistor		230-460 VAC Regen Resistor			
	Catalog	Watts	Catalog	Watts	Catalog	Watts		
7.5	RG22	100	RG39	100	RG68	320	224	E8
15, 20	-	-	-	-	RG27A	320	224	E8
27.5	-	-	-	-	RG11	640	447	E8

## Filters for CE For use with MintDrive<sup>II</sup>, Flex+Drive<sup>II</sup> and FlexDrive<sup>II</sup>

Control Continuous Current Rating	Input Voltages						Customer Supplied 24 VDC		Mult. Sym.
	115 VAC Catalog	List Price	230 VAC Catalog	List Price	230-460 VAC Catalog	List Price	Catalog	List Price	
2.5	FI0015A00	74	FI0015A00	74	FI0018A00	152	All models FI0014A00	74	E8
5.0	FI0015A02	119	FI0015A02	119	FI0018A00	152			
7.5	FI0029A00	278	FI0029A00	278	FI0018A00	152			
15, 20, 27.5	-	-	-	-	FI0018A01	254			

## 24V Power Supply For use with NextMove ESB, NextMove BX-II, MintDrive<sup>II</sup>, Flex+Drive<sup>II</sup> and FlexDrive

Continuous Current	Catalog	List Price	Mult. Sym.
3.2	DR-75-24	278	E5
5	DR-120-24	328	E5
10	DR-240-24	569	E5

Shaded areas are stocked products.



## Brushless Servo Control

**Features:** Basic brushless servo or linear motor control. Input command signal may be industry standard  $\pm 10$  VDC (velocity or torque), or pulse and direction. Software provided to set up via RS232 to auto-tune and configure. Fully protected unit.



## MicroFlex Encoder/SSI Feedback-Based Units

Input Voltage	Output Current		Catalog Number ①②	List Price	Multiplier Symbol
	Continuous	Peak			
<b>Encoder Feedback</b>					
115-230	3	6	FMH2A03TR-EN23	997	E3
115-230	6	12	FMH2A06TR-EN23 ③	1094	E3
115-230	9	18	FMH2A09TR-EN23 ③	1359	E3
115-230	3	6	FMH2A03TR-EN43	997	E3
115-230	6	12	FMH2A06TR-EN43 ③	1094	E3
115-230	9	18	FMH2A09TR-EN43③	1359	E3
<b>Resolver Feedback</b>					
115-230	3	6	FMH2A03TR-RN23	1106	E3
115-230	6	12	FMH2A06TR-RN23 ③	1203	E3
115-230	9	18	FMH2A09TR-RN23 ③	1468	E3
115-230	3	6	FMH2A03TR-RN43	1106	E3
115-230	6	12	FMH2A06TR-RN43 ③	1203	E3
115-230	9	18	FMH2A09TR-RN43 ③	1468	E3

**NOTE:** ① Order regen resistor separately. ② Customer must supply +24 Vdc for I/O operation. ③ Requires external ventilation.

## ETHERNET MicroFlex e100-Encoder Feedback

Input Voltage	Output Current		Catalog Number	List Price	Multiplier Symbol
	Continuous	Peak			
110-230	3	6	MFE230A003 ③	1312	E3
110-230	6	12	MFE230A006 ③	1409	E3
110-230	9	18	MFE230A009 ③	1674	E3

## Regen Resistors for use with MicroFlex

Control Continuous Current Rating	Regen Resistor Watts	Regen Resistor Catalog Number	List Price	Multiplier Symbol
3	44	RG56	139	E8
6	100	RG39	224	E8
9	100	RG39	224	E8

## CE Filters for use with MicroFlex

Control Continuous Current Rating	Single Phase		Three Phase		Customer Supplied 24V Filter		Multiplier Symbol
	Catalog Number	List Price	Catalog Number	List Price	Catalog Number	List Price	
3	FI0015A00	74	FI0018A00	152	FI0014A00	74	E8
6	FI0015A02	119	FI0018A00	152	FI0014A00	74	E8
9	FI0029A00	278	FI0018A03	258	FI0014A00	74	E8

## Fan Kits for use with MicroFlex only

Description	Catalog Number	List Price	Multiplier Symbol
Fan Assembly, 24 VDC	FAN001-024	137	E8

Shaded areas are stocked products.

Motion Controls

AC Controls

AC Motors

DC Controls

DC Motors

Linear Motors

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## Brushless Servo Control

**Features:** Fully protected and uses the industry standard  $\pm 10$  VDC input command. Simple English keypad provides setup and operation. Auto-tuning to configure the control and motor. Optional expansion boards extend product capability for application needs.



## H2 AC Servo Control

Input Voltage		230 VAC 3 $\phi$			400 / 460 VAC 3 $\phi$		
Bus Voltage		300 VDC			565 / 650 VDC		
Output Current Amps (rms)		Servo Control Catalog Number	List Price	Mult. Sym.	Servo Control Catalog Number	List Price	Mult. Sym.
Cont.	Peak						
3.2	6.4	SHH2A03-E	1397	E3	-	-	-
3.4	6.0	-	-	-	SHH4A04-E	2478	E3
4.2	7.4	SHH2A04-E	1566	E3	-	-	-
4.8	8.4	-	-	-	SHH4A05-E	2970	E3
6.8	11.9	SHH2A07-E	1807	E3	-	-	-
7.6	13.3	-	-	-	SHH4A08-E	3855	E3
9.6	16.8	SHH2A10-E	2018	E3	-	-	-
11	19.3	-	-	-	SHH4A11-E	3871	E3
14	24.5	-	-	-	SHH4A15-E	4419	E3
15.2	26.6	SHH2A16-E	2428	E3	-	-	-
21	36.8	-	-	-	SHH4A21-E	4752	E3
22	38.5	SHH2A22-E	3407	E3	-	-	-
27	47.2	-	-	-	SHH4A27-E	6056	E3
28	49	SHH2A28-E	4342	E3	-	-	-
42	73.5	SHH2A42-E	5187	E3	-	-	-
54	94.5	SHH2A54-E	6216	E3	-	-	-

**NOTE:** 1) Order Regen Resistor & Cables separately.  
2) Current specified at 8 KHz PWM frequency.  
Units may be operated at 2.5 KHz to obtain slightly higher output current; peak current time will be shorter.

**Shaded areas are stocked products.**



## Brushless Servo Control

**Features:** Uses industry standard  $\pm 10$  VDC input command. Simple English keypad provides setup and operation. Auto-tuning to configure the control and motor. Optional expansion boards extend product capability for application needs. Fully protected unit.



### 23H Series – Servo

Input Voltage		230 VAC 3 $\phi$			400 / 460 VAC 3 $\phi$		
Bus Voltage		300 VDC			565 / 650 VDC		
Output Current Amps (rms)		Servo Control Catalog Number	List Price	Mult. Sym	Servo Control Catalog Number	List Price	Mult. Sym.
Cont.	Peak						
3	6	SD23H2A03-E	1550	E3	–	–	–
4	8	SD23H2A04-E	1733	E3	SD23H4A04-E	2749	E3
5	10	–	–	–	SD23H4A05-E	3296	E3
7	14	SD23H2A07-E	2005	E3	–	–	–
8	16	–	–	–	SD23H4A08-E	4277	E3
10	20	SD23H2A10-E	2239	E3	–	–	–
11	22	–	–	–	SD23H4A11-E	4296	E3
15	30	–	–	–	SD23H4A15-E	4903	E3
16	32	SD23H2A16-E	2694	E3	–	–	–
21	42	–	–	–	SD23H4A21-E	5272	E3
22	44	SD23H2A22-E	3780	E3	–	–	–
27	46	–	–	–	SD23H4A27-ER	6719	E3
28	56	SD23H2A28-E	4817	E3	–	–	–
42	84	SD23H2A42-E	5779	E3	–	–	–
54	92	SD23H2A54-ER	6897	E3	–	–	–

**NOTE:** 1) Order Regen Resistor & Cables separately. **Shaded areas are stocked products.**  
 2) Current specified at 8 KHz PWM frequency.  
 Units may be operated at 2.5 KHz to obtain slightly higher output current; peak current time will be shorter.  
 3) Single phase input is possible with de-rate.  
 4) Also available in 115 VAC 1 $\phi$ . Customer must supply +24 VDC for operation of I/O's. Order keypad (KP0006A00SP) and cable separately.

# H-Series Accessories

## Regen Resistors

Servo Control Catalog Number	230 VAC Drive Regen Resistor					
	600 Watts			1200 Watts		
	Catalog Number	List Price	Mult. Sym.	Catalog Number	List Price	Mult. Sym.
SD26M2AXX-TR	RG56 ①	139	E8	-	-	-
SD26M2A07-TR	RG39 ①	224	E8	-	-	-
SD23H2A03-E	RGA620	519	E8	RGA1220	791	E8
SD23H2A04-E	RGA620	519	E8	RGA1220	791	E8
SD23H2A07-E	RGA620	519	E8	RGA1220	791	E8
SD23H2A10-E	RGA614	519	E8	RGA1214	791	E8
SD23H2A16-E	RGA606	519	E8	RGA1206	791	E8
SD23H2A22-E	RGA606	519	E8	RGA1206	791	E8
SD23H2A28-E	RGA606	519	E8	RGA1206	791	E8
SD23H2A42-E	RGA606	519	E8	RGA1206	791	E8
SD23H2A54-ER	-	-	-	RGA1204	791	E8
<b>400 / 460 VAC Drive</b>						
SD23H4A02-E	RGA656	519	E8	RGA1256	791	E8
SD23H4A04-E	RGA656	519	E8	RGA1256	791	E8
SD23H4A05-E	RGA656	519	E8	RGA1256	791	E8
SD23H4A08-E	RGA624	519	E8	RGA1224	791	E8
SD23H4A11-E	RGA624	519	E8	RGA1224	791	E8
SD23H4A15-E	RGA620	519	E8	RGA1220	791	E8
SD23H4A21-E	RGA620	519	E8	RGA1220	791	E8
SD23H4A27-ER	RGA620	519	E8	RGA1220	791	E8
-	-	-	-	RGA1210	791	E8
-	-	-	-	RGA1210	791	E8
-	-	-	-	RGA1210	791	E8

**NOTE:** H-Series with suffix -E have internal regeneration capability for a 20% duty cycle braking.  
① RG56 is 44 watt regen resistor; RG39 is 100 watt regen resistor.

## Keypad Extension Cables for use with KP0006A00SP

Catalog Number	Cable Extension Length	List Price	Mult. Sym.
CBLH015KP	1.5 Meter (5 Feet)	66	E8
CBLH030KP	3.0 Meter (10 Feet)	94	E8
CBLH046KP	4.6 Meter (15 Feet)	121	E8
CBLH061KP	6.1 Meter (20 Feet)	202	E8
CBLH091KP	9.1 Meter (30 Feet)	309	E8
CBLH152KP	15.2 Meter (50 Feet)	405	E8
CBLH229KP	22.9 Meter (75 Feet)	446	E8
CBLH305KP	30.5 Meter (100 Feet)	553	E8

## Expansion Boards

Description	Catalog Number	List Price	Mult. Sym.
<b>Group 1 Boards</b>			
Isolated Input Board	EXB003A04	213	E8
Master Pulse Reference / Isolated Pulse Follower	EXB005A01	333	E8
Isolated Encoder Feedback	EXB008A01	573	E8
<b>Group 2 Boards</b>			
High Resolution Analog Board	EXB007A02	543	E8
4-Output Relays / 3-15 PSI Pneumatic Interface	EXB004A01	392	E8
RS232/485 High Speed Communication	EXB012A01	211	E8

Shaded areas are stocked products



# Brushless AC Servo Motors



**Features:** Designed for applications requiring higher inertial matching plus some models provide 20-50% more torque compared to previous BSM B-series. Includes Neodymium-Iron-Boron magnetic design, plus all the features of the BSM products – high rated temperature, protective O-rings, premium copper wire, and high insulated potted stator.



## BSM C-Series

Continuous Stall Torque		Continuous Stall Amps	Nominal Bus Volts	Motor Speed (RPM)	Catalog Number	List Price	Multiplier Symbol
Lb-In	N-m						
<b>With Resolver</b>							
10.6	1.2	2.7	300	6000	BSM80C-150AA	808	E4
		1.9	300	4000	BSM80C-175AA	808	E4
21.2	2.4	5.2	300	6000	BSM80C-250AA	855	E4
		3.2	300	4000	BSM80C-275AA	855	E4
		1.6	600	4000	BSM80C-2150AA	855	E4
23	2.1	2.1	300	2000	BSM90C-1150AA	790	E4
		3.6	200	4000	BSM80C-350AA	881	E4
31.8	3.6	7.8	300	4000	BSM80C-375AA	881	E4
		6.3	300	4000	BSM80C-3150AA	881	E4
		3.2	600	4000	BSM80C-4150AA	911	E4
38	4.3	6.3	300	4000	BSM80C-475AA	911	E4
		3.1	300	2000	BSM80C-4150AA	911	E4
44.3	5.0	4.0	300	2400	BSM100C-1150AA	1153	E4
		2.3	300	1200	BSM100C-1250AA	1153	E4
46.0	5.2	9.0	300	4000	BSM90C-275AA	877	E4
		4.4	300	2400	BSM90C-2150AA	877	E4
		2.5	300	1200	BSM90C-2250AA	877	E4
69.0	7.8	12.0	300	4000	BSM90C-375AA	978	E4
		6.0	600	4000	BSM90C-3150AA	978	E4
		3.5	300	1200	BSM90C-3250AA	978	E4
88.5	10.0	8.0	300	2400	BSM100C-2150AA	1287	E4
		5.0	300	1200	BSM100C-2250AA	1287	E4
125.7	14.2	11.4	300	2400	BSM100C-3150AA	1451	E4
		7.0	300	1200	BSM100C-3250AA	1451	E4
177.0	20.0	16.8	300	2400	BSM100C-4150AA	1706	E4
		10.6	300	1200	BSM100C-4250AA	1706	E4
221.3	25.0	21.0	600	4000	BSM100C-5150AA	1936	E4
		13.0	600	2400	BSM100C-5250AA	1936	E4
265.5	30.0	24.0	600	4000	BSM100C-6150AA	2060	E4
		14.0	600	2000	BSM100C-6250AA	2060	E4
<b>With Resolver and 24 VDC Brakes</b>							
10.6	1.2	1.9	300	4000	BSM80C-175BA	1118	E4
21.2	2.4	3.2	300	4000	BSM80C-275BA	1165	E4
31.8	3.6	6.3	300	4000	BSM80C-375BA	1191	E4
69.0	7.8	6.0	600	4000	BSM90C-3150BA	1361	E4
125.7	14.2	12.3	300	2000	BSM100C-3150BA	2118	E4
<b>With 2500 PPR Encoder</b>							
10.6	1.2	2.7	300	6000	BSM80C-150AF	876	E4
		1.9	300	4000	BSM80C-175AF	876	E4
21.2	2.4	5.2	300	6000	BSM80C-250AF	923	E4
		3.2	300	4000	BSM80C-275AF	923	E4
31.8	3.6	6.3	300	4000	BSM80C-375AF	949	E4
38	4.3	6.3	300	4000	BSM80C-475AF	979	E4
46.0	5.2	9.0	300	4000	BSM90C-275AF	945	E4
		4.4	300	2400	BSM90C-2150AF	945	E4
69.0	7.8	6.0	300	4000	BSM90C-3150AF	1046	E4
		3.5	600	1200	BSM90C-3250AF	1046	E4
88.5	10	8	300	2400	BSM100C-2150AF	1355	E4
		5	300	1200	BSM100C-2250AF	1355	E4
125.7	14.2	11.4	300	2400	BSM100C-3150AF	1519	E4
		7	300	1200	BSM100C-3250AF	1519	E4
177	20	16.8	300	2400	BSM100C-4150AF	1774	E4
		10.6	300	1200	BSM100C-4250AF	1774	E4
265.5	30	24	600	4000	BSM100C-6150AF	2128	E4

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Shaded areas are stocked products

Motion Controls

AC Controls

AC Motors

DC Controls

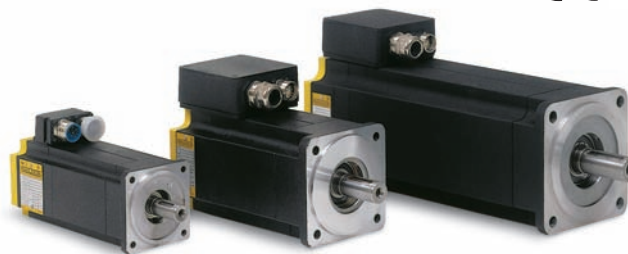
DC Motors

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# Brushless AC Servo Motors



## BSM-N Series

Cont. Stall Torque		Cont. Stall Amps	Nominal Bus Volts	Motor Speed (RPM)	Motor Catalog Number	List Price	Mult. Sym.
Lb-In	N-m						
<b>With Resolver</b>							
3.9	0.45	1.49	160	4000	BSM50N-133AA	717	E4
		0.79	300	4000	BSM50N-175AA	717	E4
6.8	0.77	2.1	200	6000	BSM63N-133AA	1153	E4
		1.9	200	4000	BSM63N-150AA	1153	E4
		1.0	300	4000	BSM63N-175AA	1153	E4
7.9	0.9	2.8	160	4000	BSM50N-233AA	826	E4
		1.4	160	2000	BSM50N-275AA	826	E4
12	1.36	4.5	160	4000	BSM50N-333AA	935	E4
		2.3	300	4000	BSM50N-375AA	935	E4
13	1.4	4.2	200	6000	BSM63N-233AA	1269	E4
		3.0	200	4000	BSM63N-250AA	1269	E4
		2.1	300	4000	BSM63N-275AA	1269	E4
14.6	1.6	4.7	200	6000	BSM80N-133AA	1208	E4
		3.0	300	6000	BSM80N-150AA	1208	E4
		2.1	300	4000	BSM80N-175AA	1208	E4
18.5	2	6.2	200	6000	BSM63N-333AA	1407	E4
		4.4	200	4000	BSM63N-350AA	1407	E4
		3.0	300	4000	BSM63N-375AA	1407	E4
28.3	3.2	8.7	200	6000	BSM80N-233AA	1329	E4
		5.6	200	4000	BSM80N-250AA	1329	E4
		3.9	300	4000	BSM80N-275AA	1329	E4
40	4.5	12.9	200	6000	BSM80N-333AA	1505	E4
		8.6	200	4000	BSM80N-350AA	1505	E4
		5.5	300	4000	BSM80N-375AA	1505	E4
53	6	8.0	300	4000	BSM90N-175AA	1566	E4
		4.1	300	2000	BSM90N-1150AA	1566	E4
		2.6	300	1200	BSM90N-1250AA	1566	E4
88	10	12.0	300	4000	BSM90N-275AA	1814	E4
		6.3	300	2000	BSM90N-2150AA	1814	E4
		4.3	300	1200	BSM90N-2250AA	1814	E4
117	13.3	19	300	4000	BSM90N-375AA	2294	E4
		8.6	300	2000	BSM90N-3150AA	2294	E4
		5.5	300	1200	BSM90N-3250AA	2294	E4
123	14.0	9.4	300	2000	BSM100N-1150AA	2014	E4
		5.9	300	1200	BSM100N-1250AA	2014	E4
203	23.0	15.5	300	2000	BSM100N-2150AA	2402	E4
		9.9	300	1200	BSM100N-2250AA	2402	E4
300	33.9	21	300	2000	BSM100N-3150AA	2766	E4
		14.7	300	1200	BSM100N-3250AA	2766	E4
354	40.0	28.9	300	2000	BSM100N-4150AA	3404	E4
		18.0	300	1200	BSM100N-4250AA	3404	E4

See Notes on Page 17

Shaded areas are stocked products

# Brushless Servo Motors

## BSM-N Series

Continuous Stall Torque		Continuous Stall Amps	Nominal Bus Volts	Motor Speed (RPM)	Catalog Number	List Price	Multiplier Symbol
Lb-In	N-m						
<b>With Resolver and 24 VDC Brakes</b>							
6.8	0.77	1.0	300	4000	BSM63N-175BA	1462	E4
13	1.4	2.1	300	4000	BSM63N-275BA	1579	E4
14.6	1.6	2.1	300	4000	BSM80N-175BA	1518	E4
18.5	2.0	3.0	300	4000	BSM63N-375BA	1772	E4
28.3	3.2	3.9	300	4000	BSM80N-275BA	1638	E4
40	4.5	5.5	300	4000	BSM80N-375BA	1815	E4
53	6.0	8.0	300	4000	BSM90N-175BA	1949	E4
117	13.3	19	300	4000	BSM90N-375BA	2779	E4
123	14.0	9.4	300	2000	BSM100N-1150BA	2682	E4
300	33.9	21	300	2000	BSM100N-3150BA	3556	E4
<b>With 2500 PPR Encoder</b>							
3.9	0.45	1.4	160	4000	BSM50N-133AF	785	E4
		0.79	300	4000	BSM50N-175AF	758	E4
7.9	0.9	2.8	160	4000	BSM50N-233AF	894	E4
		1.4	160	2000	BSM50N-275AF	894	E4
12	1.36	4.5	160	4000	BSM50N-333AF	1003	E4
		2.3	300	4000	BSM50N-375AF	1003	E4
6.8	0.77	1	300	4000	BSM63N-175AF	1221	E4
13	1.4	2.1	300	4000	BSM63N-275AF	1337	E4
14.6	1.6	3	300	6000	BSM80N-150AF	1276	E4
18.5	2	3	300	4000	BSM63N-375AF	1475	E4
28.3	3.2	5.6	200	4000	BSM80N-250AF	1397	E4
		3.9	300	4000	BSM80N-275AF	1397	E4
40	4.5	5.5	300	4000	BSM80N-375AF	1573	E4
		8.6	200	4000	BSM80N-350AF	1573	E4
53	6	8	300	4000	BSM90N-175AF	1634	E4
		4.1	300	2000	BSM90N-1150AF	1634	E4
88	10.0	12	300	4000	BSM90N-275AF	1882	E4
		6.3	300	2000	BSM90N-2150AF	1882	E4
117	13.3	8.6	300	2000	BSM90N-3150AF	2362	E4
203	23	15.5	300	2000	BSM100N-2150AF	2470	E4
300	33.9	21	300	2000	BSM100N-3150AF	2834	E4
		14.7	300	1200	BSM100N-3250AF	2834	E4
354	40	18	300	1200	BSM100N-4250AF	3472	E4

- NOTE:** ① Standard configuration: all motors supplied with commutation resolver, IEC square mounting flange. **Shaded areas are stocked products**  
 Motors will meet IP65 if shaft oil seal is added.  
 ② BSM 50/63/80 series have two (2) threaded connectors for resolver and motor terminations. BSM 90/100 series have one (1) threaded connector for resolver. Termination of motor lead wires inside terminal box.  
 ③ Order motor power and feedback cable assemblies as separate items.  
 ④ BA suffix indicates 24 VDC internal electrically released spring set brake. BSM motors may be used with 230/400/460 volt controls. Verify that maximum speed is not exceeded.  
 ⑤ Pricing for NEMA versions 5N, 6N, 8N and 9N same as 50, 63, 80 and 90.

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# Servo Motor Gearhead Designed Specifically for BSM Servo

**Features:** Servo applications requiring precision, durability, and long trouble-free operation. High-efficiency gearheads to maximize the power transmission capability. Designed with low backlash to reduce shock loads in dynamic reversing applications.



Gearhead Catalog Number	Gear fits these motors		Gear Ratio	List Price	Mult. Sym.
	BSM-N	BSM-C			
GBSM50-MRP050-5 (1)	BSM50N-1 or -2	—	5	906	E4
GBSM50-MRP050-10 (1)	BSM50N-1	—	10	906	E4
GBSM63-MRP070-5 (1)	BSM63N-all	—	5	1026	E4
GBSM63-MRP070-10 (1)	BSM63N-1 or -2	—	10	1026	E4
GBSM63-MRP090-25 (1)	BSM63N-1 or -2	—	25	1721	E4
GBSM63-MRP090-50 (1)	BSM63N-1	—	50	1721	E4
GBSM80-MRP090-4 (2)	BSM80N-all	BSM80C-all	4	1207	E4
GBSM80-MRP090-5 (2)	BSM80N-all	BSM80C-all	5	1207	E4
GBSM80-MRP090-7 (2)	BSM80N-all	BSM80C-all	7	1207	E4
GBSM80-MRP090-10 (2)	BSM80N-1 or -2	BSM80C-1 or -2	10	1207	E4
GBSM80-MRP090-16 (1)	BSM80N-1 or -2	BSM80C-1 or -2	16	1721	E4
GBSM80-MRP090-25 (1)	BSM80N-1	BSM80C-1	25	1721	E4
GBSM80-MRP120-50 (1)	BSM80N-1 or -2	BSM80C-1 or -2	50	2089	E4
GBSM80-MRP155-100 (1)	BSM80N-1	BSM80C-1	100	2529	E4
GBSM90-MRP120-4 (2)	BSM90N-all	BSM80C-all	4	1541	E4
GBSM90-MRP120-5 (2)	BSM90N-all	BSM80C-all	5	1541	E4
GBSM90-MRP120-7 (2)	BSM90N-all	BSM80C-all	7	1541	E4
GBSM90-MRP120-10 (2)	BSM90N-1	BSM90C-1 or -2	10	1541	E4
GBSM90-MRP120-25 (1)	BSM90N-1	BSM90C-1 or -2	25	2089	E4
GBSM90-MRP155-10 (2)	BSM90N-all	BSM90C-3	10	1942	E4
GBSM90-MRP155-25 (1)	BSM90N-all	BSM90C-3	25	2529	E4
GBSM100-MRP120-3 (2)	BSM100N-all	BSM100C-all	3	1541	E4
GBSM100-MRP120-5 (2)	BSM100N-1 or -2	BSM100C-1-2-3-4	5	1541	E4
GBSM100-MRP155-5 (2)	BSM100N-3 or -4	BSM100C-5 or -6	5	1942	E4
GBSM100-MRP155-10 (2)	BSM100N-1	BSM100C-1or2or3	10	1942	E4

(1) Max Backlash 12 arc-min  
(2) Max Backlash 10 arc-min

Shaded areas are stocked products

## Standard Gearheads

	Number of Stages	Ratios Available	Backlash Arc-min	List Price	Mult. Sym.
MRP 050 (2)	1	4-5-7-10	12	906	E4
	2	16-20-25-35-40-50-70-100	15	1286	E4
MRP 070 (2)	1	3-4-5-7-10	12	1026	E4
	2	16-20-25-35-40-50-70-100	15	1502	E4
MRP 090 (2)	1	3-4-5-7-10	10	1207	E4
	2	16-20-25-35-40-50-70-100	12	1720	E4
MRP 120 (2)	1	3-4-5-7-10	10	1541	E4
	2	16-20-25-35-40-50-70-100	12	2089	E4
MRP 155 (2)	1	3-4-5-7-10	10	1942	E4
	2	16-20-25-35-40-50-70-100	12	2529	E4

## Higher Torque / Lower Backlash Gearhead

	Number of Stages	Ratios Available	Standard Arc-min Backlash	List Price	Reduced Arc-min Backlash	List Price	Mult. Sym.
MNT 065 (2)	1	3-4-5-7-10	15	1394	5	1673	E4
	2	16-20-25-35-40-50-70-100	15	2095	5	2519	E4
MNT 080 (2)	1	3-4-5-7-10	10	1972	5	2256	E4
	2	16-20-25-35-40-50-70-100	10	2561	5	2939	E4
	3	125 & 175	10	3146	5	3621	E4
MNT 115 (2)	1	3-4-5-7-10	10	2748	5	3166	E4
	2	16-20-25-35-40-50-70-100	10	3393	5	3885	E4
	3	125 & 175	10	4037	5	4605	E4
MNT 140 (2)	1	3-4-5-7-10	10	3962	5	4531	E4
	2	16-20-25-35-40-50-70-100	10	4888	5	5631	E4
	3	125 & 175	10	5820	5	6728	E4
MNT 180 (2)	1	3-4-5-7-10	6	5288	3	6046	E4
	2	16-20-25-35-40-50-70-100	6	6404	3	7335	E4
	3	125 & 175	6	C/F	3	C/F	E4
MNT 210 (2)	1	3-4-5-7-10	6	8938	3	10,142	E4
	2	16-20-25-35-40-50-70-100	6	11,384	3	12,999	E4
	3	125 & 175	6	C/F	3	C/F	E4

## Right Angle Gearheads

MRA 065 (2)	1	3-4-5-7-10	15	2392	5	2630	E4
	2	16-20-25-35-50-100	15	2922	5	3210	E4
MRA 080 (2)	1	3-4-5-7-10	10	3156	5	3472	E4
	2	16-20-25-35-50	10	3709	5	4083	E4
	3	64-80-100-125	10	4347	5	4778	E4
MRA 115 (2)	1	3-4-5-7-10	10	4035	5	4439	E4
	2	16-20-25-35-50	10	4716	5	5189	E4
	3	64-80-100-125	10	5477	5	6024	E4
MRA 140 (2)	1	3-4-5-7-10	10	5072	5	5380	E4
	2	16-20-25-35-50	10	6121	5	6731	E4
MRA 180 (2)	1	3-4-5-7-10	10	7535	5	8439	E4
	2	16-20-25-35-50	10	9063	5	10,152	E4

**NOTE:** 1) How to order custom: email scheduling, the Baldor servo motor model number, gearhead type, ratio and backlash. DO NOT ENTER REQ SET.

2) Ordering nonmenclature: GBSM80-MRP050-10

$\frac{G}{\text{Gear}}$   $\frac{BSM50}{\text{Motor}}$  -  $\frac{MRP050}{\text{Gearhead type}}$  -  $\frac{10}{\text{Ratio}}$



# Stainless Steel Brushless AC Servo Motors - SSBSM Series

**Features:** Designed for harsh, corrosive, or food/liquid, high hygiene environments. Pharmaceutical, washdown, packaging, food handling, beverage & dairy processing applications. Durable to handle IP67 and 1500 psi washdown conditions. All stainless steel to provide protection in harsh environments and washdown conditions. Reliable potted stator provides environmental, current spike and high voltage protection. Grease proven to provide 4 times greater life. Insulation UL rated and potted for extra high insulation/safety. Teflon stainless steel seal with Viton O-rings. Laser etched nameplate.



Continuous Stall Torque		Continuous Stall Amps	Nominal Bus Volts	Motor Speed (RPM)	Motor Catalog Number with Resolver	List Price	Motor Catalog Number with Encoder	List Price	Multiplier Symbol
Lb-In	N-m								
3.9	0.45	0.8	300	4000	SSBSM50N-175CA	1860	SSBSM50N-175CF	1927	E4
7.9	0.9	1.4	300	4000	SSBSM50N-275CA	1969	SSBSM50N-275CF	2036	E4
12	1.3	2.4	300	4000	SSBSM50N-375CA	2078	SSBSM50N-375CF	2146	E4
11	1.2	1.7	300	4000	SSBSM63N-275CA	2453	SSBSM63N-275CF	2520	E4
18.5	1.7	2.5	300	4000	SSBSM63N-375CA	2592	SSBSM63N-375CF	2659	E4
23	2.5	3.1	300	4000	SSBSM80N-275CA	2423	SSBSM80N-275CF	2490	E4
32	3.6	4.4	300	4000	SSBSM80N-375CA	2598	SSBSM80N-375CF	2665	E4
42	4.8	3.3	300	2000	SSBSM90N-1150CA	2883	SSBSM90N-1150CF	2950	E4
70	7.9	5	300	2000	SSBSM90N-2150CA	3131	SSBSM90N-2150CF	3198	E4
94	10	7.1	300	2000	SSBSM90N-3150CA	3610	SSBSM90N-3150CF	3678	E4
163	18	13.4	300	2000	SSBSM100N-2150CA	3982	SSBSM100N-2150CF	4049	E4
240	27	18.3	300	2000	SSBSM100N-3150CA	4431	SSBSM100N-3150CF	4499	E4
283	32	14.4	300	1200	SSBSM100N-4250CA	5070	SSBSM100N-4250CF	5137	E4
8	0.9	1.9	300	4000	SSBSM80C-175CA	1902	SSBSM80C-175CF	1969	E4
16.8	1.9	2.6	300	4000	SSBSM80C-275CA	1949	SSBSM80C-275CF	2016	E4
25	2.8	5	300	4000	SSBSM80C-375CA	1976	SSBSM80C-375CF	2043	E4
30	3.4	5	300	4000	SSBSM80C-475CA	2005	SSBSM80C-475CF	2072	E4
37	4.2	3.5	300	2000	SSBSM90C-2150CA	2194	SSBSM90C-2150CF	2261	E4
55	6.2	4.8	300	2000	SSBSM90C-3150CA	2295	SSBSM90C-3150CF	2362	E4
71	8	6.4	300	2400	SSBSM100C-2150CA	2866	SSBSM100C-2150CF	2933	E4
100	11.3	9.1	300	2400	SSBSM100C-3150CA	3030	SSBSM100C-3150CF	3097	E4
142	16	13.5	300	2400	SSBSM100C-4150CA	3285	SSBSM100C-4150CF	3352	E4
177	20	16.8	300	2400	SSBSM100C-5150CA	3515	SSBSM100C-5150CF	3582	E4
212	24	19.2	300	2400	SSBSM100C-6150CA	3639	SSBSM100C-6150CF	3706	E4

**NOTE:** Standard SSBSM series includes IEC mounting flange.  
Standard SSBSM50 has an standard no keyway and no tap on shaft end.  
Standard SSBSM50/63/80/90/100 include two threaded stainless steel connectors for feedback and motor termination.  
Order feedback and power cables separately.  
Standard motor has teflon stainless steel seal with Viton O-rings.  
Standard encoder is 2500 ppr.

**Shaded areas are stocked products**



## Stainless Steel Gearheads

### Higher Torque / Lower Backlash Gearhead

	Number of Stages	Ratios Available	Standard Arc-min Backlash	List Price	Mult. Sym.
MSS 080	1	3-4-5-7-10	10	2958	E4
	2	16-20-25-35-40-50-70-100	10	3842	E4
	3	125-175 & UP	10	4719	E4
MSS 115	1	3-4-5-7-10	10	4123	E4
	2	16-20-25-35-40-50-70-100	10	5090	E4
	3	125-175 & UP	10	6055	E4
MSS 140	1	3-4-5-7-10	10	5943	E4
	2	16-20-25-35-40-50-70-100	10	7333	E4
	3	125-175 & UP	10	8729	E4

### Right Angle Gearhead

	Number of Stages	Ratios Available	Standard Arc-min Backlash	List Price	Reduced Arc-min Backlash	List Price	Mult. Sym.
MRS 080	1	3-4-5-7-10	10	5049	5	5555	E4
	2	16-20-25-35-50	10	5934	5	6532	E4
	3	64-80-100-125	10	6956	5	7644	E4
MRS 115	1	3-4-5-7-10	10	6455	5	7102	E4
	2	16-20-25-35-50	10	7545	5	8301	E4
	3	64-80-100-125	10	8763	5	9639	E4
MRS 140	1	3-4-5-7-10	10	8115	5	8928	E4
	2	16-20-25-35-50	10	9793	5	10,769	E4

- NOTE:** 1) How to order: state Baldor servo motor model number, gearhead type (MSS), ratio and backlash.  
 2) Ordering nomenclature: GBSM80-MSS080-3  
 G BSM90 - MSS115 - 3  
 Gear Motor Gearhead type Ratio

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## Raw Cable and Cable Assemblies Motor Power Cables

Current Rating	Length		Cable Assemblies			Raw Cable			Stainless Steel Cables		
			Threaded ③ CE Connector	List Price	Mult. Sym.	No Connector	List Price	Mult. Sym.	Threaded ③ CE Connector	List Price	Mult. Sym.
	Feet	Meters									
12	5	1.5	CBL015SP-12	143	E8	CBL015RP-12	31	E8	CBL015SP-12S	320	E8
	10	3.0	CBL030SP-12	173	E8	CBL030RP-12	60	E8	CBL030SP-12S	368	E8
	20	6.1	CBL061SP-12	231	E8	CBL061RP-12	119	E8	CBL061SP-12S	423	E8
	30	9.1	CBL091SP-12	290	E8	CBL091RP-12	179	E8	CBL091SP-12S	475	E8
	50	15.2	CBL152SP-12	409	E8	CBL152RP-12	296	E8	CBL0152SP-12S	577	E8
	75	22.9	CBL229SP-12	556	E8	CBL229RP-12	444	E8	-	-	-
	100	30.5	CBL305SP-12	702	E8	CBL305RP-12	591	E8	-	-	-
	250	76.0	-	-	-	CBL760RP-12	1473	E8	-	-	-
500	152.5	-	-	-	CBL1525RP-12	2946	E8	-	-	-	
20	5	1.5	CBL015SP-20	184	E8	CBL015RP-20	37	E8	CBL015SP-20S	338	E8
	10	3.0	CBL030SP-20	220	E8	CBL030RP-20	73	E8	CBL030SP-20S	369	E8
	20	6.1	CBL061SP-20	290	E8	CBL061RP-20	143	E8	CBL061SP-20S	426	E8
	30	9.1	CBL091SP-20	361	E8	CBL091RP-20	214	E8	CBL091SP-20S	487	E8
	50	15.2	CBL152SP-20	502	E8	CBL152RP-20	355	E8	CBL152SP-20S	599	E8
	75	22.9	CBL229SP-20	680	E8	CBL229RP-20	532	E8	-	-	-
	100	30.5	CBL305SP-20	856	E8	CBL305RP-20	708	E8	-	-	-
	250	76.0	-	-	-	CBL760RP-20	1769	E8	-	-	-
500	152.5	-	-	-	CBL1525RP-20	3536	E8	-	-	-	
35	5	1.5	-	-	-	CBL015RP-35	60	E8	-	-	-
	10	3.0	-	-	-	CBL030RP-35	119	E8	-	-	-
	20	6.1	-	-	-	CBL061RP-35	237	E8	-	-	-
	30	9.1	-	-	-	CBL091RP-35	355	E8	-	-	-
	50	15.2	-	-	-	CBL152RP-35	591	E8	-	-	-
	75	22.9	-	-	-	CBL229RP-35	886	E8	-	-	-
	100	30.5	-	-	-	CBL305RP-35	1180	E8	-	-	-
	250	76.0	-	-	-	CBL760RP-35	2948	E8	-	-	-

## Mating Connectors

Motor Type	Description	Number	List Price	Mult. Sym.
BSM50/63/80	Mate Assy Motor (8 Pin) CE Threaded Connector	MCSP0W-08	149	E8
BSM63/80 90/100	Mate Assy Resolver (12 Pin) CE Threaded Connector	MCSRES-12	114	E8
	Mate Assy Encoder/Hall CE Threaded Connector (16 Pin)	MCSENC-16	125	E8
BSM90/100	PG21 Strain Relief	MSC-PG21	61	E8
	PG29 Strain Relief	ASR24661	53	E8
	Adaptor (PG 29/21)	ASR24662	13	E8
	M40 Strain Relief Adaptor (M40/M25)	MCS-M40	53	E8
	Adaptor (M40/M25)	MCS-M40A	13	E8
BSM-F	Mate Assy Resolver (14 Pin)	MCSN	57	E8
SSBSM	Mating Power Connector Stainless Steel	MCSP0W-08S	296	E8
	Mate Assy Resolver Connector Stainless Steel	MCSRES-12S	326	E8
	Mate Assy Encoder Connector Stainless Steel	MCSENC-16S	326	E8

**NOTE:** 1) BSM & SSBSM series require both power and feedback cables.  
 2) CE style has shield tied to connector housing.  
 ③ Cable assemblies include one connector on one end, flying leads other end.  
 ④ Cable assemblies include two connectors as indicated.

Shaded areas are stocked products

# Raw Cable and Cable Assemblies

## Feedback Cables

Item	Length		Cable Assemblies			Raw Cable			Stainless Steel Cables		
			Threaded ③ CE Connector	List Price	Mult. Sym.	No Connector	List Price	Mult. Sym.	Threaded ③ CE Connector	List Price	Mult. Sym.
	Feet	Meters									
Resolver	5	1.5	CBL015SF-R	140	E8	CBL015RF-R	29	E8	CBL015SF-RS	329	E8
	10	3.0	CBL030SF-R	166	E8	CBL030RF-R	54	E8	CBL030SF-RS	347	E8
	20	6.1	CBL061SF-R	220	E8	CBL061RF-R	108	E8	CBL061SF-RS	386	E8
	30	9.1	CBL091SF-R	273	E8	CBL091RF-R	160	E8	CBL091SF-RS	424	E8
	50	15.2	CBL152SF-R	378	E8	CBL152RF-R	266	E8	CBL152SF-RS	498	E8
	75	22.9	CBL229SF-R	571	E8	CBL229RF-R	399	E8	-	-	-
	100	30.5	CBL305SF-R	644	E8	CBL305RF-R	531	E8	-	-	-
	250	76.0	-	-	-	CBL760RF-R	1328	E8	-	-	-
500	152.5	-	-	-	CBL1525RF-R	2651	E8	-	-	-	
Encoder / Hall Cable	5	1.5	CBL015SF-E	173	E8	CBL015RF-E	49	E8	CBL015SF-ES	356	E8
	10	3.0	CBL030SF-E	220	E8	CBL030RF-E	95	E8	CBL030SF-ES	383	E8
	20	6.1	CBL061SF-E	314	E8	CBL061RF-E	189	E8	CBL061SF-ES	465	E8
	30	9.1	CBL091SF-E	400	E8	CBL091RF-E	284	E8	CBL091SF-ES	585	E8
	50	15.2	CBL152SF-E	597	E8	CBL152RF-E	472	E8	CBL0152SF-ES	724	E8
	75	22.9	CBL229SF-E	832	E8	CBL229RF-E	708	E8	-	-	-
	100	30.5	CBL305SF-E	1067	E8	CBL305RF-E	943	E8	-	-	-
	250	76.0	-	-	-	CBL760RF-E	2358	E8	-	-	-
500	152.5	-	-	-	CBL1525RF-E	4712	E8	-	-	-	
			<b>Resolver Feedback Threaded ④ CE Connector and DB9</b>			<b>Encoder Feedback Threaded ④ CE Connector High Density DB15</b>			<b>EnDat Feedback Threaded ④ CE Connector High Density DB15</b>		
For use with Series-II Drives	5	1.5	CBL015SF-R1	193	E8	CBL015SF-E1	313	E8	CBL015SF-D1	234	E8
	10	3.0	CBL030SF-R1	210	E8	CBL030SF-E1	368	E8	CBL030SF-D1	291	E8
	20	6.1	CBL061SF-R1	245	E8	CBL061SF-E1	480	E8	CBL061SF-D1	409	E8
	30	9.1	CBL091SF-R1	280	E8	CBL091SF-E1	592	E8	CBL091SF-D1	524	E8
	50	15.2	CBL152SF-R1	386	E8	CBL152SF-E1	815	E8	CBL152SF-D1	760	E8
	75	22.9	CBL229SF-R1	519	E8	CBL229SF-E1	1080	E8	CBL229SF-D1	1052	E8
	100	30.5	CBL305SF-R1	651	E8	-	-	-	-	-	-
			<b>Encoder Feedback Threaded ④ CE Connector and Std DB15</b>			<b>SSI Feedback Threaded ④ Connector and Std DB15</b>					
For Use with MicroFlex	5	1.5	CBL015SF-E2	279	E8	CBL015SF-S2	267	E8			
	10	3.0	CBL030SF-E2	331	E8	CBL030SF-S2	283	E8			
	20	6.1	CBL061SF-E2	438	E8	CBL061SF-S2	317	E8			
	30	9.1	CBL091SF-E2	545	E8	CBL091SF-S2	348	E8			
	50	15.2	CBL152SF-E2	759	E8	CBL152SF-S2	412	E8			
	75	22.9	CBL229SF-E2	1025	E8	CBL229SF-S2	493	E8			

- NOTE:** 1) BSM series require both power and feedback cables.  
 2) CE style has shield tied to connector housing.  
 ③ Cable assemblies include one connector on one end, flying leads other end.  
 ④ Cable assemblies include two connectors as indicated.

Shaded areas are stocked products

## Accessories

### Flange Adapter Kits

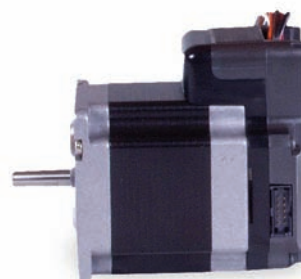
Order Number	Description	List Price	Mult. Sym.
2R-BSM63	Kit for BSM63A to convert to equivalent 2R mounting (Thickness =0.411) (HA5000A02SP)	162	E8
3R-BSM80	Kit for BSM80A to convert to equivalent 3R mounting (Thickness =0.431) (HA5000A03SP)	162	E8
4R-BSM90	Kit for BSM90A to convert to equivalent 4R mounting (Thickness =0.772) (HA5000A06SP)	240	E8
56-BSM90	Kit for BSM90 to convert to 56 mounting (Thickness =0.822) (HA5000A08)	249	E8
6R-BSM100	Kit for BSM100A to convert to equivalent 6R mounting (Thickness =0.472) (HA5000A07SP)	249	E8
QBSM63/80	Cable Kit for BSM63/80 to convert from threaded style connector to quick style connector	275	E8

- NOTE:** The standard shaft extension will be reduced by the thickness of the above kit adapter flange.  
 If desired, a custom motor may be ordered with shaft length appropriate for mounting, add \$53 list to motor price.

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# Integrated Stepper/Driver

## For use with Baldor NextMove products



Holding Torque		Voltage	Catalog number	List Price	Mult. Sym.
oz-in	n-cm				
<b>Flying leads</b>					
32	22.6	48	DSM 17F-148	320	E3
60	42.4	48	DSM 17F-248	331	E3
75	52.9	48	DSM 17F-348	354	E3
90	64	48	DSM 23F-148	410	E3
144	102	48	DSM 23F-248	426	E3
239	169	48	DSM 23F-348	442	E3
90	64	75	DSM 23F-175	506	E3
144	102	75	DSM 23F-275	522	E3
239	169	75	DSM 23F-375	624	E3
381	269	75	DSM 34F-175	626	E3
575	406	75	DSM 34F-275	762	E3
1061	749	75	DSM 34F-375	835	E3
<b>C connector</b>					
32	22.6	48	DSM 17C-148	320	E3
60	42.4	48	DSM 17C-248	331	E3
75	52.9	48	DSM 17C-348	354	E3
90	64	48	DSM 23C-148	410	E3
144	102	48	DSM 23C-248	426	E3
239	169	48	DSM 23C-348	442	E3
90	64	75	DSM 23C-175	506	E3
144	102	75	DSM 23C-275	522	E3
239	169	75	DSM 23C-375	624	E3
<b>P connector</b>					
32	22.6	48	DSM 17P-148	320	E3
60	42.4	48	DSM 17P-248	331	E3
75	52.9	48	DSM 17P-348	354	E3
90	64	48	DSM 23P-148	410	E3
144	102	48	DSM 23P-248	426	E3
239	169	48	DSM 23P-348	442	E3
90	64	75	DSM 23P-175	506	E3
144	102	75	DSM 23P-275	522	E3
239	169	75	DSM 23P-375	624	E3
parameter set up cable			CBL 054-501	90	E3
cable adaptor for 'C' connector version			CBL 054-502	48	E3
prototype development cable for 'C' connector			CBL 054-503	48	E3
manual control knob			DSM***-***-M	32	E3
encoder option		500ppr	DSM***-***-D5	163	E3
		1000ppr	DSM***-***-D10	163	E3

Note - Motors may be fitted with Manual control knob OR Differential encoder option

## DC Servo Drives

**Features:** Totally enclosed stand alone one or two axes DC brush-type servo control. The control can be removed from the carton and be operational within 10 minutes. It is fully protected, and has individual adjustments for RMS and peak current, balance, response, gain and tachometer. Requires tachometer feedback.



### TSD-Series

Output Current		Bus Volts (VDC)	Input Voltage (Nominal)	Control Catalog Number	Number of Axis	List Price	Mult. Sym.
(Cont.)	(Peak)						
5	10	50	115 VAC	TSD-050-05-1-U	1	919	E3
			115VAC	TSD-050-05-2-U	2	1433	E3
		50	220 VAC	TSD-050-05-1-I	1	919	E3
			220 VAC	TSD-050-05-2-I	2	1433	E3
		100	115 VAC	TSD-100-05-1-U	1	994	E3
			115 VAC	TSD-100-05-2-U	2	1583	E3
		100	220 VAC	TSD-100-05-1-I	1	994	E3
			220 VAC	TSD-100-05-2-I	2	1583	E3

- NOTE:** 1) Controls are complete units including mating connectors, a power cord, internal power supply.  
 2) There are two different internal power supplies:  
     U Option (USA): Has a 115 VAC supply input and standard cord plug.  
     I Option (INT'L): Has a 220 VAC ± 10% (50/60 Hz) supply input. The international cord has no plug on the input side.  
 3) Inductors: Motor line inductors are not required on TSD Drives.  
 4) Transformer: No transformer is required. TSD plugs right into the wall (115V, 1 Ph/ 220 VAC with I Option).  
 5) Continuous output current per axis.

## DC Servo Drives

**Features:** Open chassis DC servo control. Includes individual adjustment for signal gain, current limit, balance (drift), response (gain), tachometer, and auxiliary signal gain (secondary input signal). Fully protected unit. Stocked units having 1 or 3 control cards inserted can accept another control card (order separately), to drive another motor.



### UM and LD Series

Output Current		Bus Volts (VDC)	Input Voltage (Nominal)	Control Catalog Number	Number of Axis	List Price	Mult. Sym.
(Cont.)	(Peak)						
6	12	100	70 VAC	UM2-100-1-10S	1	1520	E3
				UM2-100-1-20S	2	2126	E3
				UM4-100-2-30S	3	2837	E3
				UM4-100-2-40S	4	3442	E3
				UM6-100-2-50S	5	4292	E3
				UM6-100-2-60S	6	4898	E3
15	30	100	70 VAC	UM2-100-1-01S	1	1606	E3
				UM2-100-1-02S	2	2195	E3
				UM4-100-2-03S	3	3096	E3
				UM4-100-2-04S	4	3789	E3
				UM6-100-2-05S	5	4724	E3
				UM6-100-2-06S	6	5419	E3
15	30	150	105 VAC	UM2-150-1-01S	1	1785	E3
				UM2-150-1-02S	2	2629	E3
				UM4-150-2-03S	3	3576	E3
				UM4-150-2-04S	4	4419	E3
				UM6-150-2-05S	5	5504	E3
				UM6-150-2-06S	6	6347	E3
15	30	160	115 VAC 1 $\phi$	LD2-01S	1	1560	E3
			LD2-02S	2	2230	E3	
			115 VAC 3 $\phi$	LD4-03S	3	3015	E3
			LD4-04S	4	3685	E3	

**NOTE:** ① Continuous output current per card or axis: Note that the power supply on UM2/LD2 can deliver 27 amps continuous max with 1 $\phi$  input; the UM4, UM6 and LD4 can deliver 50 amps continuous max with 3 $\phi$  input.  
 ② Inductors: Motor line inductors are not required on UM or LD type controls.  
 ③ Transformer: An isolation transformer is required on UM Series; the LD4 requires a step down transformer to 115VAC 3 $\phi$   
 ④ The LD control card is not interchangeable with UM control card.

**For Component Parts order per the following:**

Control Catalog Number	Control Card			Chassis		
	Catalog Number	List Price	Mult. Sym.	Catalog Number	List Price	Mult. Sym.
UM2-100-1-10S UM2-100-1-20S	UM1506HS-100	607	E3	UM2-100-1	913	E3
UM4-100-2-30S UM4-100-2-40S	UM1506HS-100	607	E3	UM4-100-2	1017	E3
UM6-100-2-50S UM6-100-2-60S	UM1506HS-100	607	E3	UM6-100-2	1259	E3
UM2-100-1-01S UM2-100-1-02S	UM3015HS-100	693	E3	UM2-100-1	913	E3
UM4-100-2-03S UM4-100-2-04S	UM3015HS-100	693	E3	UM4-100-2	1017	E3
UM6-100-2-05S UM6-100-2-06S	UM3015HS-100	693	E3	UM6-100-2	1199	E3
UM2-150-1-01S UM2-150-1-02S	UM3015HS-150	844	E3	UM2-150-1	942	E3
UM4-150-2-03S UM4-150-2-04S	UM3015HS-150	844	E3	UM4-150-2	1046	E3
UM6-150-2-05S UM6-150-2-06S	UM3015HS-150	844	E3	UM6-150-2	1289	E3
LD2-01S LD2-02S	LD3015HS	670	E3	LD2	890	E3
LD4-03S LD4-04S	LD3015HS	670	E3	LD4	1005	E3

Shaded areas are stocked products

## DC Servo Motors

**Features:** High 155°C continuous duty ratings and includes an insulation system with non-hygroscopic polyester high temperature class H varnish for dependability. Uses premium 200°C moisture resistant, multi-coated copper wire for reliability.



Cont. Stall Torque		Cont. Stall Amps	Nominal Bus Volts	Rated Speed (RPM)	Catalog Number	List Price	Mult. Sym.	
Lb-In	N-M							
1.9	0.21	2.1	50	4000	M-2240-ACYAN ①	298	E4	
					MT-2240-ACYAN	455		
		3.4	40	5000	M-2240-BCYAN	298		E4
					MT-2240-BCYAN	455		
					MTE-2240-BCBCN	1041		
3.1	0.35	3.4	50	3500	M-2250-ACYAN ①	338	E4	
					MT-2250-ACYAN	495		
					MT-2250-AMYAN	495		
					MTE-2250-AMACN	1115		
		5.5	30	3000	M-2250-BCYAN	338		E4
					MT-2250-BCYAN	495		
					MT-2250-BCYCN	561		
					MTE-2250-BCBCN	1115		
6.3	0.71	2.6	100	2800	M-3353-BLYAN ①	433	E4	
					MT-3353-BLYAN	561		
					MT-3353-BLYCN	629		
		5.1	80	5000	M-3353-DLYAN	433		E4
MT-3353-DLYAN	561							
8.8	0.99	3.8	100	3200	M-3358-BLYAN ①	455	E4	
					MT-3358-BLYAN	582		
		6	100	5000	M-3358-CLYAN	455		E4
MT-3358-CLYAN	582							
11.3	1.2	4.9	100	2800	M-3363-BLYAN ①	499	E4	
					MT-3363-BLYAN	626		
					MT-3363-BCYAN	653		
					MT-3363-BLYCN	692		
					MT-3363-BDYCN	732		
		MTE-3363-BCBCN	1224					
		MTE-3363-BLBCN	1246					
6.3	100	4200	M-3363-CLYAN	499	E4			
MT-3363-CLYAN	626							

**NOTE:** ① Base motor for pricing. See option chart for list price adders.

Shaded areas indicate stocked products

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## DC Servo Motors

**Features:** High 155°C continuous duty ratings and includes an insulation system with non-hygroscopic polyester high temperature class H varnish for dependability. Uses premium 200°C moisture resistant, multi-coated copper wire for reliability.



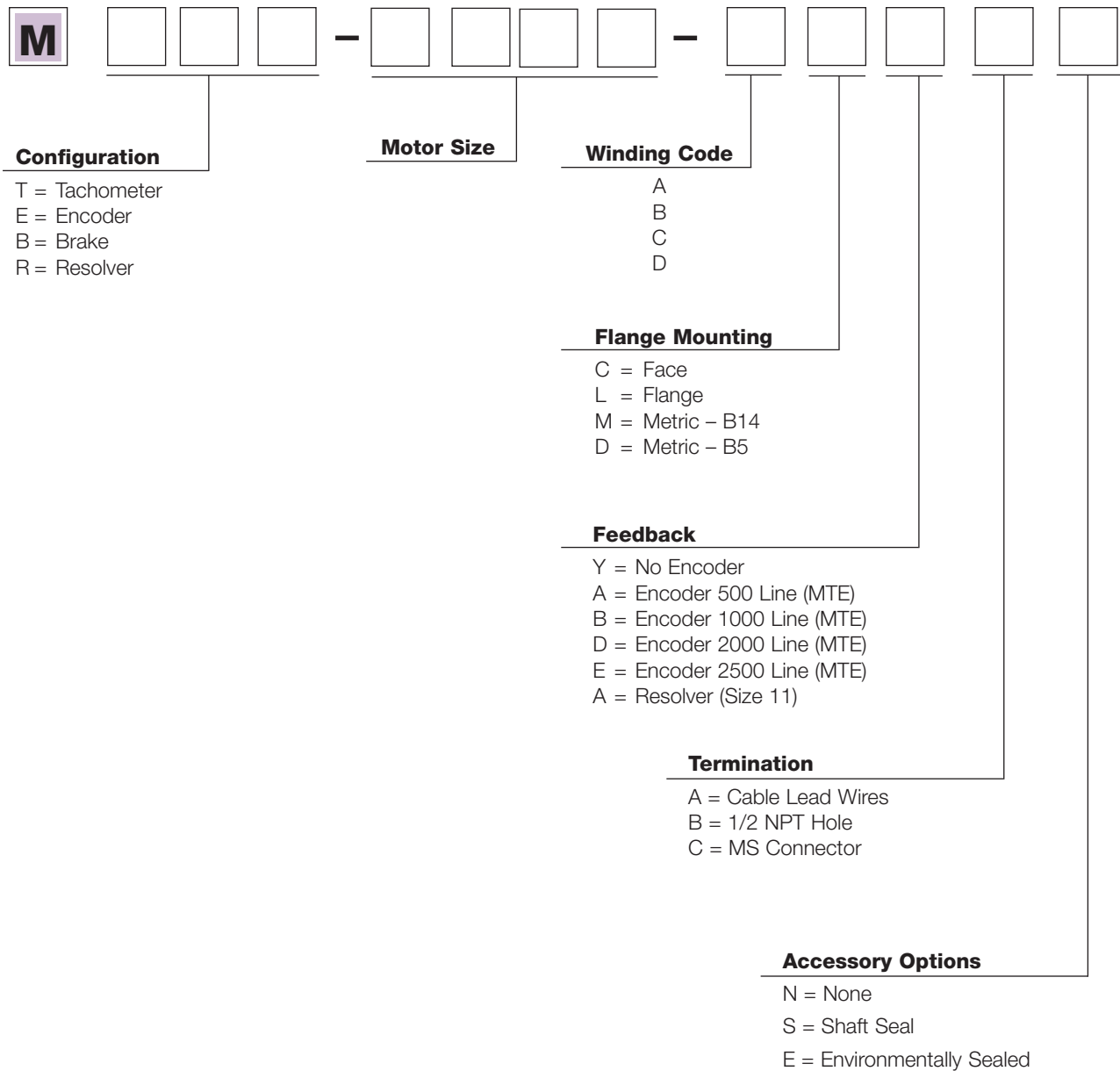
Cont. Stall Torque		Cont. Stall Amps	Nominal Bus Volts	Rated Speed (RPM)	Catalog Number	List Price	Mult. Sym.
Lb-In	N-M						
12	1.4	5.5	100	3000	M-4050-ALYBE ① MT-4050-ALYBE	612 739	E4
		7.9	100	4500	M-4050-BLYBE MT-4050-BLYBE	612 739	
21	2.4	5	100	1500	M-4060-ALYBE ① MT-4060-ALYBE	647 774	E4
		7	100	2300	M-4060-BLYBE MT-4060-BLYBE	647 774	
28	3.1	6.2	100	1500	M-4070-ALYBE ① MT-4070-ALYBE	728 857	E4
		9.2	100	2300	M-4070-BLYBE MT-4070-BLYBE MT-4070-BLYCE MTE-4070-BLABE MTE-4070-BLACE MTE-4070-BLBCE	728 857 922 1410 1475 1475	
40	4.5	9	100	1500	M-4090-ALYBE ① MT-4090-ALYBE	788 916	E4
		13	100	2300	M-4090-BLYBE MT-4090-BLYBE MT-4090-BLYCE MTE-4090-BLABE MTE-4090-BLACE MTE-4090-BLBCE	788 916 982 1468 1536 1536	
30	3.3	6.1	150	2200	M-4525-BTYCN ① MT-4525-BTYCN	848 976	E4
		9.2	150	3200	M-4525-CTYCN MT-4525-CTYCN	848 976	
		12	150	4400	M-4525-DTYCN MT-4525-DTYCN	848 976	
40	4.5	5.7	150	1400	M-4535-ATYCN ① MT-4535-ATYCN	924 1052	E4
		8.3	150	2200	M-4535-BTYCN MT-4535-BTYCN	924 1052	
		11.2	100	1800	M-4535-CTYCN MT-4535-CTYCN	924 1052	
		16.4	100	2900	M-4535-DTYCN MT-4535-DTYCN	924 1052	
50	5.6	8	150	1700	M-4545-ATYCN ① MT-4545-ATYCN	1038 1165	E4
		10.6	150	2300	M-4545-BTYCN MT-4545-BTYCN	1038 1165	
		15.7	150	3300	M-4545-CTYCN MT-4545-CTYCN MTE-4545-CTBCE	1038 1165 1916	
58	6.5	8.5	150	1500	M-4555-ATYCN ① MT-4555-ATYCN	1318 1445	E4
		12.1	100	1400	M-4555-BTYCN MT-4555-BTYCN	1318 1445	
		15.3	100	1800	M-4555-CTYCN MT-4555-CTYCN	1318 1445	

**NOTE:** ① Base motor for pricing. See option chart for list price adders.

Shaded areas indicate stocked products



# DC Servo Motor Identification Matrix



**NOTE:** Some combinations are not available on all motor frame sizes. Contact the local Baldor District Office.

# Options Chart – List Price Adder

## DC Servo Motors

Motor Option Description		Motor Series				
		M2200	M3300	M4000	M4500	
<b>Winding Option</b>		<b>Code</b>				
Winding "A"	A	N/C	N/A	N/C	N/C	
Winding "B"	B	STD	STD	STD	N/C	
Winding "C"	C	N/A	N/C	N/A	STD	
Winding "D"	D	N/A	N/C	N/A	N/C	
<b>Flange Mounting</b>		<b>Code</b>				
Square (inch)	L	33	STD	STD	N/A	
Round (inch)	C	STD	29	44	N/A	
NEMA 56 (inch)	N	N/A	N/A	81	126	
Round Face	T	N/A	N/A	N/A	STD	
Round Flange	H	N/A	N/A	N/A	126	
Metric-B5 Flange ③	D	40	40	154	126	
Metric-B14 Face ③	M	N/C	N/C	N/C	STD	
<b>Feedback Option</b>		<b>Code</b>				
Feedback (Specify MTE, ME)						
Encoder	500ppr	A	554		653	
	1000ppr	B	554		653	
	2000 ppr	D	766		809	
	2500 ppr	E	766		809	
Mounting Provisions Only		Y	222		305	
Feedback (Specify MTR, MR)						
Resolver (Size 11)		R	507		659	
Mounting Provisions Only		Y	208		275	
<b>Termination Option</b>		<b>Code</b>				
Cable Leadwires with Strain Relief	A	STD	STD	9	N/A	
NPT Hole 1/2 Inch	B	N/A	N/A	STD	N/A	
MS Connector	C	66	66	66	STD	
Junction Box	D	N/A	N/A	65	68 ①	
MS Rear Mounted Connector (Old Style)	R	63	N/A	N/A	N/A	
<b>Accessory Option</b>		<b>Code</b>				
Standard, No Options		N	STD	STD	NC	STD
Environmentally Sealed (Includes Shaft Seal)		E	N/A	42	STD	100
Shaft Oil Seal		S	N/A	29	34	34
<b>Other Option</b>		<b>Code</b>				
Brake ②		B	236	502	581	634
Thermostat Adder		Custom	52		STD	

**NOTE:** STD = Standard  
 N/C = No additional charge      N/A = Not available  
 ① For motor-tach unit only. Does not include encoder termination which exit via separate MS connector.  
 ② Standard fail safe brake is 24VDC.  
 ③ Includes chrome 12 pin connector on encoder feedback when ordered.

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## Accessories for DC Servo Motors

### Cable Assemblies

Any of These Motor Types...	Can Use This Cable Assembly Catalog Number	Number of Connector Pins	Length		List Price	Mult. Sym.
			Meters	Feet		
M, MT-2200 M, MT, MTB, MB-3300	CBL061SP-AF	6	6.1	20	157	E8
MTE, ME, -2200 MTE, ME, MEB, -3300 MEB, MTEB, -3300	CBL061SC-GN	14	6.1	20	207	E8
M, MT, MB MTB-4050/4060	CBL061SP-AF	6	6.1	20	157	E8
M, MT, MTB MB-4070/4090	CBL061SP-BI CBL091SP-BI	9 9	6.1 9.1	20 30	207 275	E8 E8
MTE, ME, MTEB, MEB 4050/4060/4070/4090	CBL061SC-GP CBL091SC-GP	16 16	6.1 9.1	20 30	207 275	E8 E8
Motor Power Cable For M, MT, MTB, MB-4500 ①	CBL061SP-BI CBL091SP-BI	9 9	6.1 9.1	20 30	207 275	E8 E8
Encoder Feedback For MTE, ME, MEB, MTEB-4500 ①	CBL030SF-BN CBL061SF-BN	14 14	3.0 6.1	10 20	139 207	E8 E8

**NOTE:** ① M-4500 Series with encoder feedback requires two cables; one for motor power and one for feedback.

## Accessories for DC Servo Motors

### Mating Connectors

Any of These Motor Types ...	Can Use This Mating Connector Description	Catalog Number	List Price	Mult. Sym.
M, MT-2200 M, MT, MTB, MB-3300	6 Pin MS Style Connector	MSCF	57	E8
MTE, ME, -2200 MTE, ME, -3300 MEB, MTEB, -3300	14 Pin MS Style Connector	MSCN	57	E8
M, MT, MB, MTB-4050/4060	6 Pin MS Style Connector	MSCF	57	E8
M-MT, MTB, MB-4070/4090	9 Pin MS Style Connector	MSCI	57	E8
MTE, ME, MTEB, MEB-4050 4050/4060/4070/4090	16 Pin MS Style Connector	MSCP	57	E8
Motor Connector For M, MT, MTB, MB-4500 ①	9 Pin MS Style Connector	MSCI	57	E8
Encoder Feedback Connector For MTE, ME, MEB, MTEB-4500 ①	14 Pin MS Style Connector	MSCN	57	E8

**NOTE:** ① M-4500 Series with encoder feedback requires two connectors; one for motor power and one for feedback.

## Adapter Plates

Catalog Number	Description	List Price	Mult. Sym.
22-M2200	Adapter Kit For M2200 To Convert C Face To Flange Mounting	33	E8
22-IM2200	Adapter Kit For IM2200 To Convert Metric C Face To Flange Mounting	33	E8

Shaded areas indicate stocked products

## HyCore Motor



## HyCore10 Motors

Continuous Force		Catalog Number ①	List Price	Mult. Sym.
Lbs	N			
12	53	LMHS10A-3C0A	979	E6
24	105	LMHS10B-3C0A	1203	E6
35	158	LMHS10C-3C0A	1411	E6
47	209	LMHS10D-3C0A	1749	E6
47	209	LMHS10B-6C0A	2174	E6
71	316	LMHS10C-6C0A	2539	E6
94	418	LMHS10D-6C0A	3254	E6

## Standard Platen

Size Code	Length (mm)	Catalog Number	List Price	Mult. Sym.
A	200	LTHS10A-0200	273	E6
	300	LTHS10A-0300	289	E6
	1000	LTHS10A-1000	439	E6
B	200	LTHS10B-0200	289	E6
	300	LTHS10B-0300	312	E6
	1000	LTHS10B-1000	551	E6
C	200	LTHS10C-0200	289	E6
	300	LTHS10C-0300	329	E6
	1000	LTHS10C-1000	598	E6
D	200	LTHS10D-0200	345	E6
	300	LTHS10D-0300	392	E6
	1000	LTHS10D-1000	835	E6

## Custom Platens

Calculate "List Price" using "base price" (from below) plus the appropriate "adder per length" (from below).

Example: Determine list price for 250 mm length of LTHS10C.

The number would be LTHS10C-0250, with base price = \$299, and adder of \$0.27 per mm (note mm not inch)

The list price would be \$299 + 67.50 (ie 250mm x \$0.27/mm = \$67.50) = \$366.50

Catalog Number	List Price	Length Adder \$/mm	Mult. Sym.
LTHS10A-XXXX	246	0.11	E6
LTHS10B-XXXX	277	0.20	E6
LTHS10C-XXXX	299	0.27	E6
LTHS10D-XXXX	392	0.40	E6

# Linear Motor Cog-Free



## LMCF-Series Brushless Servo Motor Coil Assembly

Size Code	Continuous Force		Catalog Number	List Price	Mult. Sym.
	Lbs.	N			
A	1.2	5.3	LMCF02A-HCO	606	E6
	2.5	11	LMCF04A-HCO	705	E6
B	3.1	13.8	LMCF02B-HCO	613	E6
	6.2	27.8	LMCF04B-HCO	711	E6
	8.5	37.5	LMCF06B-HCO	739	E6
C	6.5	29	LMCF02C-HCO	665	E6
	13	58	LMCF04C-HCO	717	E6
	19.5	87	LMCF06C-HCO	832	E6
	26	115.6	LMCF08C-HCO	855	E6
D	8.3	36.8	LMCF02E-HCO	677	E6
	16.5	73.6	LMCF04D-HCO	769	E6
	24.8	110	LMCF06D-HCO	861	E6
	33	147	LMCF08D-HCO	971	E6
	41.3	183.6	LMCF10D-HCO	1081	E6
	49.6	220.3	LMCF12D-HCO	1109	E6
E	28	124	LMCF04E-HCO	797	E6
	42	185	LMCF06E-HCO	901	E6
	56	251	LMCF08E-HCO	989	E6
	70	314	LMCF10E-HCO	1127	E6
	85	377	LMCF12E-HCO	1358	E6
F	99	440	LMCF14E-HCO	1497	E6
	43	191	LMCF04F-HCO	1467	E6
	87	387	LMCF08F-HCO	1721	E6
	130	578	LMCF12F-HCO	2028	E6
	173	768	LMCF16F-HCO	2380	E6

**NOTE:** When placing an order in BUS, the Spec Number will begin with "NB".

## Linear Track Cog-Free

Size Code	Catalog Number	List Price	Mult. Sym.
A	LTCF-A4	246	E6
	LTCF-A7	367	E6
	LTCF-A9	490	E6
	LTCF-A12	612	E6
	LTCF-A24	1223	E6
B	LTCF-B4	263	E6
	LTCF-B7	393	E6
	LTCF-B9	525	E6
	LTCF-B12	656	E6
	LTCF-B24	1311	E6
C	LTCF-C4	292	E6
	LTCF-C7	437	E6
	LTCF-C9	583	E6
	LTCF-C12	728	E6
	LTCF-C24	1456	E6
D	LTCF-D4	356	E6
	LTCF-D7	534	E6
	LTCF-D9	711	E6
	LTCF-D12	889	E6
	LTCF-D24	1776	E6
E	LTCF-E4	549	E6
	LTCF-E7	823	E6
	LTCF-E9	1095	E6
	LTCF-E12	1369	E6
	LTCF-E24	2737	E6
F	LTCF-F4	1288	E6
	LTCF-F7	1930	E6
	LTCF-F9	2574	E6
	LTCF-F12	3218	E6
	LTCF-F24	6433	E6

**NOTE:** 1) Linear Tracks are modular and may be placed end-to-end to create longer lengths. 2) Order Linear Track with same "size code" as motor.

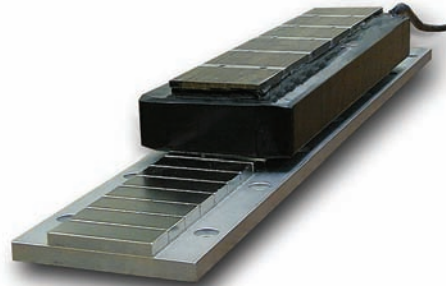
For custom non-modular length tracks, use the following (round to nearest inch) and use E6.

Size Code	Catalog Number	List Price per Inch
A	LTCF-AXX	57
B	LTCF-BXX	61
C	LTCF-CXX	68

Size Code	Catalog Number	List Price per Inch
D	LTCF-DXX	80
E	LTCF-EXX	121
F	LTCF-FXX	276

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# Linear Motor Iron Core



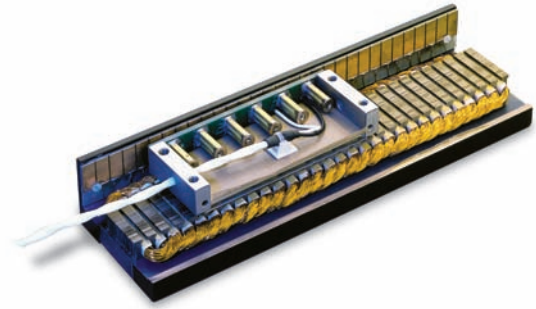
## LMIC-Series Forcers

Standard Profile						Low Profile					
Cont. Force		Coil Width Code	Catalog Number	List Price	Mult. Sym.	Cont. Force		Coil Width Code	Catalog Number	List Price	Mult. Sym.
Lbs	N					Lbs	N				
18	80	A	LMIC1A-S-HC0x	1057	E6	8	36	A	LMIC1A-L-HC0x	1057	E6
55	244	C	LMIC1C-S-HC0x	1309	E6	16	74	B	LMIC1B-L-HC0x	1178	E6
74	329	B	LMIC2B-S-HC0x	1340	E6	24	109	C	LMIC1C-L-HC0x	1309	E6
110	489	C	LMIC2C-S-HC0x	1510	E6	33	147	D	LMIC1D-L-HC0x	1438	E6
184	818	E	LMIC2E-S-HC0x	1859	E6	37	165	C	LMIC2C-L-HC0x	1510	E6
221	983	D	LMIC3D-S-HC0x	1918	E6	50	222	D	LMIC2D-L-HC0x	1676	E6
277	1232	E	LMIC3E-S-HC0x	2139	E6	66	294	D	LMIC3D-L-HC0x	1918	E6
370	1641	E	LMIC4E-S-HC0x	2420	E6	83	372	D	LMIC4D-L-HC0x	2159	E6
555	2465	F	LMIC5F-S-HC0x	2997	E6	88	393	C	LMIC6C-L-HC0x	2320	E6
777	3451	G	LMIC6G-S-HC0x	3671	E6	101	449	D	LMIC5D-L-HC0x	2399	E6
1000	4439	I	LMIC6I-S-HC0x	4412	E6	118	524	D	LMIC6D-L-HC0x	2639	E6
1166	5179	I	LMIC7I-S-HC0x	4848	E6	132	587	D	LMIC7D-L-HC0x	2881	E6

## Magnetic Tracks (Match track width code to coil width code)

Standard Profile				Low Profile			
Track Width Code	Catalog Number	List Price	Mult. Sym.	Track Width Code	Catalog Number	List Price	Mult. Sym.
A	LTIC-AS05	269	E6	A	LTIC-AL05	222	E6
	LTIC-AS08	387	E6		LTIC-AL08	317	E6
	LTIC-AS24	1023	E6		LTIC-AL24	809	E6
B	LTIC-BS05	355	E6	B	LTIC-BL05	284	E6
	LTIC-BS08	511	E6		LTIC-BL08	404	E6
	LTIC-BS24	1373	E6		LTIC-BL24	1053	E6
C	LTIC-CS05	472	E6	C	LTIC-CL05	377	E6
	LTIC-CS08	680	E6		LTIC-CL08	538	E6
	LTIC-CS24	1860	E6		LTIC-CL24	1434	E6
D	LTIC-DS05	570	E6	D	LTIC-DL05	450	E6
	LTIC-DS08	815	E6		LTIC-DL08	638	E6
	LTIC-DS24	2220	E6		LTIC-DL24	1688	E6
E	LTIC-ES05	656	E6				
	LTIC-ES08	939	E6				
	LTIC-ES24	2571	E6				
F	LTIC-FS05	783	E6				
	LTIC-FS08	1108	E6				
	LTIC-FS24	3058	E6				
G	LTIC-GS05	921	E6				
	LTIC-GS08	1300	E6				
	LTIC-GS24	3567	E6				
I	LTIC-IS05	1124	E6				
	LTIC-IS08	1593	E6				
	LTIC-IS24	4403	E6				

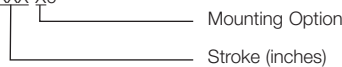
# Linear Motor Brush



## LMBR-Series

Continuous Force		Catalog Number ①②	List Price ③	List Price Adder for Each Inch of Travel ③	Mult. Sym.
Lbs.	N				
4.2	18.7	LMBR06-20XXX-X0	49	850	E6
8.5	37.8	LMBR06-25XXX-X0	53	843	E6
11	49	LMBR06-28XXX-X0	56	940	E6
13.5	60.1	LMBR06-30XXX-X0	57	1013	E6
15	66.8	LMBR06-33XXX-X0	58	1058	E6
17	75.7	LMBR06-35XXX-X0	61	1104	E6
24	106.8	LMBR06-43XXX-X0	72	1225	E6
26	115.7	LMBR06-45XXX-X0	75	1264	E6
29	129.1	LMBR06-48XXX-X0	77	1301	E6
8.1	36	LMBR12-20XXX-X0	49	1778	E6
21	93.5	LMBR12-28XXX-X0	56	1871	E6
29	129.1	LMBR12-33XXX-X0	58	1987	E6
34	151.3	LMBR12-35XXX-X0	61	2270	E6
47	209.2	LMBR12-43XXX-X0	72	2390	E6
55	244.8	LMBR12-48XXX-X0	77	2467	E6

Example catalog number: LMBR06-20XXX-X0



When placing an order in BUS, the Spec Number will begin with "BM".

- NOTE:**
- ① Under "Mounting Option", specify either option "1" (width "A" – see brochure); or option "2" (width "E"). Price is same for each option.
  - ② Under "Stroke", specify length of stroke or travel in inches (use inch = mm x 0.039). Note maximum stroke is 132 inches, or 11 feet (3.3 meters).
  - ③ List price is for motor primary and secondary with "zero" inches of stroke or travel. Be sure to add to list price the appropriate price adder for each inch of travel, i.e., List Price = "List Price" + "Price Adder" x Inches of Travel (stroke).

# Linear Motor AC Induction



## LMAC-Series

Size Code	Static Force ②		Catalog Number	List Price	Mult. Sym.
	Lbs.	N			
16	14	62	LMAC1607C23XXX	1798	E6
	18	80	LMAC1608C23XXX	2086	E6
	24	106	LMAC1609C23XXX	2404	E6
	28	124	LMAC1610C23XXX	2632	E6
	32	142	LMAC1611C23XXX	3003	E6
	38	169	LMAC1612C23XXX	3259	E6
	42	186	LMAC1613C23XXX	3523	E6
	46	204	LMAC1614C23XXX	3787	E6
	52	231	LMAC1615C23XXX	4061	E6
32	58	258	LMAC1616C23XXX	4335	E6
	28	124	LMAC3207C23XXX	3528	E6
	36	160	LMAC3208C23XXX	4087	E6
	44	195	LMAC3209C23XXX	4717	E6
	52	231	LMAC3210C23XXX	5162	E6
	62	275	LMAC3211C23XXX	5892	E6
	72	320	LMAC3212C23XXX	6393	E6
	78	347	LMAC3213C23XXX	6912	E6
	90	400	LMAC3214C23XXX	7427	E6
	96	427	LMAC3215C23XXX	7965	E6
	100	445	LMAC3216C23XXX	8504	E6

Example catalog number: LMAC1607C23XXX

When placing an order in BUS, the Spec Number will begin with "LN".



**NOTE:** ① Under "Voltage" Option, specify:

- A = 115 VAC
- B = 230 VAC
- C = 380 VAC
- D = 460/480 VAC
- E = 550 VAC
- F = 600 VAC

② Static force indicated is for 100% duty cycle.

When placing an order in BUS, the Spec Number will begin with "LN".



# Linear Motor Single-Axis Stepper



## LMSS-Series Stepper Motor Forcers

Size Code	Static Force		Catalog Number	List Price	Mult. Sym.
	Lbs.	N			
06	2	8.9	LMSS0602-2WW0	821	E6
	4	17.8	LMSS0604-2WW0	1213	E6
13	5	22.2	LMSS1302-2WW1	1012	E6
	10	44.5	LMSS1304-2AW1	2253	E6
20	20	89	LMSS2004-2AW1	3177	E6
25	25	111.2	LMSS2504-2AW1	3483	E6
	50	222.4	LMSS2508-2AW1	5695	E6

## Stepper Motor Platens

Size Code	Platen Type	Catalog Number ①	List Price ②	List price Adder for Each inch of Travel	Mult. Sym.
06	BAR	LTSS06WB-XXX	601	38	E6
13	BAR	LTSS13XB-XXX	627	38	E6
20	BAR	LTSS20WB-XXX	492	28	E6
	TUBE	LTSS20WT-XXX	503	30	E6
	TUBE	LTSS20AT-XXX	520	33	E6
25	BAR	LTSS25XB-XXX	896	47	E6
	TUBE	LTSS25XT-XXX	908	50	E6
	TUBE	LTSS25AT-XXX	924	53	E6

Example catalog number: LTSS06WB-XXX

Length (in inches)

**NOTE:** ① Under "Length" designator, specify platen length (in inches). Use Inch = mm x 0.03937, and round up to nearest inch.  
 ② List price is for platen with "zero" inches of travel. Be sure to add to list price, the appropriate price adder for each inch of travel.  
 i.e., List Price = "List Price" + "Price Adder" x Inches of Travel (stroke).

# Linear Motor Dual-Axis Stepper



## LMDS-Series Stepper Motor Forcers

Size Code	Static Force		Catalog Number	List Price	Mult. Sym.
	Lbs.	N			
06	3	13.3	LMDS0602-2A0	4039	E6
13	6	26.7	LMDS1302-2A0	4895	E6
	15	66.7	LMDS1304-2A0	8781	E6
20	9	40.0	LMDS2002-2A0	6863	E6
	24	106	LMDS2004-2A0	11,606	E6
25	30	133	LMDS2504-2A0	13,927	E6

**NOTE:** 2 and 4 phase prices are the same.

## Stepper Motor Platens

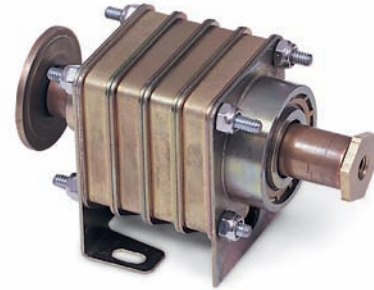
Size		Stainless Steel Honeycomb Base		Carbon Steel Solid Base		
		Catalog Number	List Price	Catalog Number	List Price	Mult. Sym.
Inches	[m]					
18 x 13	45.7 x 33	LTDS-E1-S	7039	LTDS-E2-S	5835	E6
18 x 16.33	45.7 x 41.4	LTDS-S1-S	8558	LTDS-S2-S	6167	E6
23 x 18	58.4 x 45.7	LTDS-Q1-S	8879	LTDS-Q2-S	7176	E6
33 x 23	83.8 x 58.4	LTDS-H1-S	10,911	LTDS-H2-S	9407	E6
33 x 33	83.8 x 83.8	LTDS-T1-S	13,431	LTDS-T2-S	12,163	E6
43 x 33	109.2 x 83.8	LTDS-F1-S	18,034	LTDS-F2-S	15,543	E6
55 X 35	139.7 X 88.9	LTDS-L1-S	20,583	-	-	-
62 x 39	157.4 x 99	LTDS-D1-S	23,738	-	-	-

## Stepper Positioning Sensor

Description	Catalog Number	List Price	Mult. Sym.
Stepper Positioning Sensor	LMSPS-200	1814	E6
	LMSPS-400	1718	E6

**NOTE:** An integration charge of \$220 per motor applies for factory installation. When placing an order in BUS, the Spec Numbers will begin with "DQ".

# Linear Motor Polynoid



## LMPY-Series Single Phase

No of Coils	Stall Force		Smooth Housing			Finned Housing		
	Lbs.	N	Catalog Number	List Price	Mult. Sym.	Catalog Number	List Price	Mult. Symbol
2	3.7	16.4	LMPY0203-SX1X-X	314	E6	LMPY0205-FX1X-X	359	E6
	2.4	10.6	LMPY0206-SX1X-X	314	E6	LMPY0207-FX1X-X	359	E6
	1	4.4	LMPY0207-SX1X-X	314	E6	LMPY0230-FX1X-X	359	E6
4	7	31.7	LMPY0403-SX1X-X	443	E6	LMPY0405-FX1X-X	518	E6
	3.8	16.9	LMPY0409-SX1X-X	443	E6	LMPY0417-FX1X-X	518	E6
	1.9	8.4	LMPY0421-SX1X-X	443	E6	LMPY0430-FX1X-X	518	E6
	1	4.4	LMPY0445-SX1X-X	443	E6	LMPY0467-FX1X-X	518	E6
6	10.8	48.0	LMPY0602-SX1X-X	640	E6	LMPY0605-FX1X-X	678	E6
	6	26.6	LMPY0608-SX1X-X	640	E6	LMPY0611-FX1X-X	678	E6
	3	13.3	LMPY0614-SX1X-X	640	E6	LMPY0614-FX1X-X	678	E6
	1.5	6.6	LMPY0630-SX1X-X	640	E6	LMPY0645-FX1X-X	678	E6
8	17.5	77.8	LMPY0803-SX1X-X	793	E6	LMPY0805-FX1X-X	826	E6
	7.7	34.2	LMPY0806-SX1X-X	793	E6	LMPY0811-FX1X-X	826	E6
	4.2	18.6	LMPY0809-SX1X-X	793	E6	LMPY0820-FX1X-X	826	E6
	2.1	9.3	LMPY0827-SX1X-X	793	E6	LMPY0850-FX1X-X	826	E6
	1.2	5.3	LMPY0856-SX1X-X	793	E6	LMPY0899-FX1X-X	826	E6
12	27	120	LMPY1203-SX1X-X	1074	E6	LMPY1204-FX1X-X	1074	E6
	12.5	55.6	LMPY1206-SX1X-X	1074	E6	LMPY1215-FX1X-X	1074	E6
	6.9	30.6	LMPY1209-SX1X-X	1074	E6	LMPY1220-FX1X-X	1074	E6
	3.8	16.9	LMPY1222-SX1X-X	1074	E6	LMPY1246-FX1X-X	1074	E6
	1.7	16.9	LMPY1250-SX1X-X	1074	E6	LMPY1299-FX1X-X	1074	E6
24	54	240	-	-	-	LMPY2405-FX1X-X	2179	E6
	24.9	110	-	-	-	LMPY2410-FX1X-X	2179	E6
	14.1	62.7	-	-	-	LMPY2420-FX1X-X	2365	E6
	6.3	28	-	-	-	LMPY2437-FX1X-X	2365	E6

Example catalog number: LMPY0203-SX1X-X

When placing an order in BUS, the Spec Number will begin with "PY".



- NOTE:** 1) Under "Electrical Termination" Option, specify either 1 = Conduct Opening; 2 = Grommet Opening; or 3 = Strain Relief. Price is same for each option. Specify 4 = Custom and Contact factory for pricing.  
 2) Under "Voltage Code" Option, specify either A = 115 VAC; B = 230 VAC; C = 380 VAC; D = 460/480 VAC; E = 550 VAC; F = 600 VAC. Price is same for each option.  
 3) Under "Holding Coil" option, specify either code as follows:

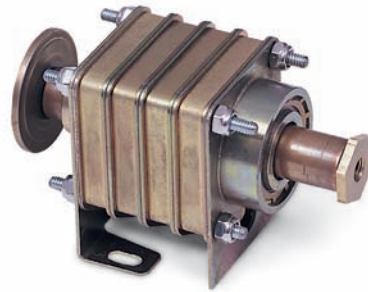
Code	Description	List Price	Mult. Sym.
0	No Holding Coil	N/C	E6
1	Holding Coil On One End	115/230 VAC \$93	E6
2	Holding Coil On Both Ends	115/230 VAC \$185	E6

## Miscellaneous

Description	Length (Inches)	Catalog Listing	List Price	Mult. Sym.	Description	Catalog Listing	List Price	Mult. Sym.
Polynoid Rod	4	LTPY001-073	194	E6	Polynoid Rod	LTPY290-223	51	E6
	6	LTPY001-064	257	E6	End Hold Assembly			
	8	LTPY001-066	319	E6	Polynoid Rod	LMPC299-684	17	E6
	9	LTPY001-067	327	E6	End Adapter			
	10	LTPY001-070	334	E6	Polynoid Single	LMPC229-002	39	E6
	12	LTPY001-068	377	E6	Phase Capacitors	LMPC229-004	39	E6
	18	LTPY001-074	453	E6		LMPC229-006	35	E6
	24	LTPY001-075	474	E6		LMPC229-007	26	E6
	36	LTPY001-076	599	E6		LMPC229-008	39	E6
	48	LTPY001-077	749	E6		LMPC229-015	49	E6
	60	LTPY001-078	900	E6		LMPC229-016	39	E6
	72	LTPY001-079	999	E6		LMPC229-017	39	E6
						LMPC229-033	33	E6
						LMPC229-045	26	E6

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# Linear Motor Polynoid



## LMPY-Series Three Phase

No of Coils	Stall Force		Smooth Housing			Finned Housing		
	Lbs.	N	Catalog Number	List Price	Mult. Sym.	Catalog Number	List Price	Mult. Symbol
3	6.4	28.4	LMPY0304-SX3X-X	389	E6	LMPY0306-FX3X-X	443	E6
	3.6	15.9	LMPY0309-SX3X-X	389	E6	LMPY0313-FX3X-X	443	E6
	2.3	10.2	LMPY0315-SX3X-X	389	E6	LMPY0322-FX3X-X	443	E6
	1.4	6.2	LMPY0327-SX3X-X	389	E6	LMPY0339-FX3X-X	443	E6
	1	4.4	LMPY0341-SX3X-X	389	E6	LMPY0360-FX3X-X	443	E6
6	14.3	28.4	LMPY0603-SX3X-X	640	E6	LMPY0605-FX3X-X	659	E6
	8.4	15.9	LMPY0605-SX3X-X	640	E6	LMPY0610-FX3X-X	659	E6
	5.1	10.2	LMPY0610-SX3X-X	640	E6	LMPY0619-FX3X-X	659	E6
	2	6.2	LMPY0625-SX3X-X	640	E6	LMPY0650-FX3X-X	659	E6
	1	4.4	LMPY0651-SX3X-X	640	E6	LMPY0699-FX3X-X	659	E6
9	23	102	LMPY0903-SX3X-X	816	E6	LMPY0905-FX3X-X	826	E6
	17	75.4	LMPY0904-SX3X-X	816	E6	LMPY0907-FX3X-X	826	E6
	13.3	59	LMPY0905-SX3X-X	816	E6	LMPY0910-FX3X-X	826	E6
	9	39	LMPY0908-SX3X-X	816	E6	LMPY0915-FX3X-X	826	E6
	5.9	26.1	LMPY0912-SX3X-X	816	E6	LMPY0924-FX3X-X	826	E6
	4.5	19.9	LMPY0917-SX3X-X	816	E6	LMPY0933-FX3X-X	826	E6
	1.5	6.6	LMPY0952-SX3X-X	816	E6	LMPY0999-FX3X-X	826	E6
12	27	102	LMPY1202-SX3X-X	976	E6	LMPY1205-FX3X-X	976	E6
	18.5	102	LMPY1204-SX3X-X	976	E6	LMPY1209-FX3X-X	976	E6
	14	75.4	LMPY1205-SX3X-X	976	E6	LMPY1212-FX3X-X	976	E6
	9.3	59	LMPY1209-SX3X-X	976	E6	LMPY1220-FX3X-X	976	E6
	7.1	39	LMPY1212-SX3X-X	976	E6	LMPY1228-FX3X-X	976	E6
	4.8	21.3	LMPY1218-SX3X-X	976	E6	LMPY1241-FX3X-X	976	E6
	2	8.8	LMPY1243-SX3X-X	976	E6	LMPY1299-FX3X-X	976	E6
	1	4.4	LMPY1299-SX3X-X	976	E6	-	-	-
24	54	239	-	-	-	LMPY2405-FX3X-X	2179	E6
	28	1124	-	-	-	LMPY2412-FX3X-X	2179	E6
	18.6	82.5	-	-	-	LMPY2420-FX3X-X	2179	E6
	9.6	42.6	-	-	-	LMPY2441-FX3X-X	2179	E6

NOTE: Refer to notes on previous page.

## Miscellaneous

Description	Catalog Listing	Amps	List Price	Mult. Sym.	Description	Catalog Listing	Amps	List Price	Mult. Sym.
Polynoid	LMPO330-001	1	57	E6	Polynoid	LMPO330-014	8	57	E6
Overload	LMPO330-002	1.2	57	E6	Overload	LMPO330-015	9	57	E6
Relay ①	LMPO330-003	1.5	57	E6	Relay ①	LMPO330-016	10	57	E6
	LMPO330-004	1.8	57	E6		LMPO330-017	0.1	57	E6
	LMPO330-005	2	57	E6		LMPO330-018	0.2	57	E6
	LMPO330-006	2.5	57	E6		LMPO330-019	0.3	57	E6
	LMPO330-007	3	57	E6		LMPO330-020	0.4	57	E6
	LMPO330-008	3.5	57	E6		LMPO330-021	0.5	57	E6
	LMPO330-009	4	57	E6		LMPO330-022	0.6	57	E6
	LMPO330-010	4.5	57	E6		LMPO330-023	0.7	57	E6
	LMPO330-011	5	57	E6		LMPO330-024	0.8	57	E6
	LMPO330-012	6	57	E6		LMPO330-025	1.3	57	E6
	LMPO330-013	7	57	E6		LMPO330-026	1.4	57	E6

NOTE: Relays rated for 46-500 VAC

# Linear Motor Non-Commutated



## LMNC-Series (Linear Motor Non-Commutated Moving Coil)

Stroke		Cont. Force		Catalog Number	List Price	Mult. Symbol
Inch	mm	Lbs.	N			
0.220	6	0.625	3	LMNC1-1F3-F2	993	E6
		1	5	LMNC1-1F3-F2	993	E6
0.200	5	1.5	7	LMNC1-1F5-F2	2040	E6
0.100	3	5	23	LMNC1-2F8-F1	3264	E6
0.500	1.3	9	41	LMNC1-3F8-F5	4332	E6



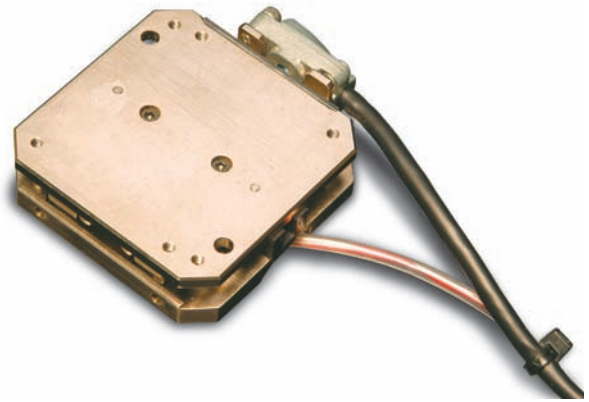
## LMNM-Series (Linear Motor Non-Commutated Moving Magnet)

Stroke		Cont. Force		Catalog Number	List Price	Mult. Symbol
Inch	mm	Lbs.	N			
0.150	3.8	0.5	3	LMNM4-F5-F2	1394	E6
0.250	6.4	1.9	9	LMNM2-1F3-F2	2585	E6
0.500	12.7	25	112	LMNM4-2F8-F5	9298	E6
		50	223	LMNM9-2F8-F5	11,380	E6
0.600	15.2	0.5	3	LMNM2-F8-F6	1818	E6
0.750	19.1	2.5	12	LMNM2-1F5-F8	2264	E6
1.130	28.6	2.5	12	LMNM2-1F5-1F1	2021	E6
2	50.8	2	9	LMNM2-1F5-2	4308	E6

When placing an order in BUS, the Spec Number will begin with "NC".

## Linear Motor Nano Step Motors and Stage

**Features:** The NanoMove is a single or dual-axis linear piezoelectric motor. When combined with an encoder, accuracy attainable is very high – 50nm (0.000002 inch).

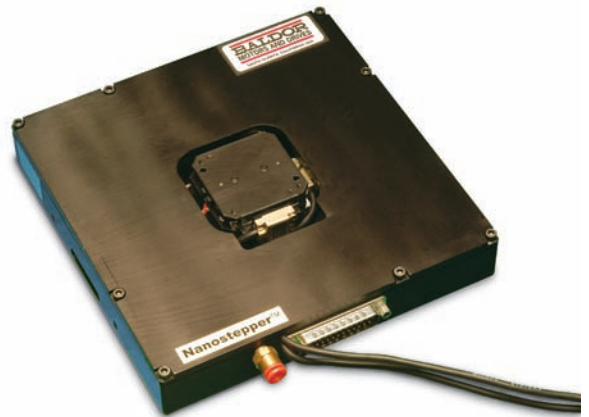


### NanoMove

Catalog Number	Description	List Price	Mult. Sym.
IU0012A00	Single Axis NanoMove Includes piezo-amplifier/control and encoder resolution of 20nm	7387	E6
IU0012A01	Dual axis NanoMove Includes 2 piezo-amplifiers/controls and encoder resolution of 20nm	15,351	E6

## NanoStepper

**Features:** The NanoStepper is a linear positioning stage. It accomplishes long travel/course positioning with linear steppers, then attains a fine position move by using piezoelectric motors.



Catalog Number	Description	List Price	Mult. Sym.
DQ0067A01	Forcer – Dual Axis NanoStepper Includes IU0012A01	29,787	E6
LTDS-H3-C	Platen on granite base with stroke of 14.8" x 26.6" (377mm x 677mm) Standard flatness 0.001" per foot	10,709	E6



# Linear Stage Single Bearing

## LSS-Series



Stroke		Force		Catalog Number	List Price	Mult. Sym.
Inch	[m]	Lbs.	N			
6	0.2	6	27	LSS1TE1CF04B006	5,615	E6
		13	57	LSS1TE1CF04C006	5,789	E6
		16	73	LSS1TE1CF04D006	6,717	E6
		19	86	LSS1TE1CF06C006	6,305	E6
		24	109	LSS1TE1CF06D006	7,649	E6
		26	116	LSS1TE1CF08C006	6,821	E6
		28	124	LSS1TE1CF04E006	9,923	E6
		33	146	LSS1TE1CF08D006	8,681	E6
		41	185	LSS1TE1CF06E006	11,473	E6
		55	247	LSS1TE1CF08E006	13,024	E6
12	0.3	6	27	LSS1TE1CF04B012	6,578	E6
		13	57	LSS1TE1CF04C012	6,781	E6
		16	73	LSS1TE1CF04D012	7,608	E6
		19	86	LSS1TE1CF06C012	7,297	E6
		24	109	LSS1TE1CF06D012	8,641	E6
		26	116	LSS1TE1CF08C012	7,814	E6
		28	124	LSS1TE1CF04E012	11,411	E6
		33	146	LSS1TE1CF08D012	9,673	E6
		41	185	LSS1TE1CF06E012	12,961	E6
		55	247	LSS1TE1CF08E012	14,511	E6
18	0.5	6	27	LSS1TE1CF04B018	7,537	E6
		13	57	LSS1TE1CF04C018	7,773	E6
		16	73	LSS1TE1CF04D018	8,600	E6
		19	86	LSS1TE1CF06C018	8,288	E6
		24	109	LSS1TE1CF06D018	9,633	E6
		26	116	LSS1TE1CF08C018	8,806	E6
		28	124	LSS1TE1CF04E018	12,898	E6
		33	146	LSS1TE1CF08D018	10,666	E6
		41	185	LSS1TE1CF06E018	14,448	E6
		55	247	LSS1TE1CF08E018	15,998	E6
24	0.6	6	27	LSS1TE1CF04B024	8,501	E6
		13	57	LSS1TE1CF04C024	8,764	E6
		16	73	LSS1TE1CF04D024	9,592	E6
		19	86	LSS1TE1CF06C024	9,281	E6
		24	109	LSS1TE1CF06D024	10,624	E6
		26	116	LSS1TE1CF08C024	9,798	E6
		28	124	LSS1TE1CF04E024	14,387	E6
		33	146	LSS1TE1CF08D024	11,659	E6
		41	185	LSS1TE1CF06E024	15,936	E6
		55	247	LSS1TE1CF08E024	17,488	E6
30	0.8	6	27	LSS1TE1CF04B030	9,464	E6
		13	57	LSS1TE1CF04C030	9,756	E6
		16	73	LSS1TE1CF04D030	10,583	E6
		19	86	LSS1TE1CF06C030	10,274	E6
		24	109	LSS1TE1CF06D030	11,617	E6
		26	116	LSS1TE1CF08C030	10,790	E6
		28	124	LSS1TE1CF04E030	15,874	E6
		33	146	LSS1TE1CF08D030	12,651	E6
		41	185	LSS1TE1CF06E030	17,426	E6
		55	247	LSS1TE1CF08E030	18,976	E6
36	0.9	6	27	LSS1TE1CF04B036	10,426	E6
		13	57	LSS1TE1CF04C036	10,748	E6
		16	73	LSS1TE1CF04D036	11,576	E6
		19	86	LSS1TE1CF06C036	11,267	E6
		24	109	LSS1TE1CF06D036	12,610	E6
		26	116	LSS1TE1CF08C036	11,781	E6
		28	124	LSS1TE1CF04E036	17,363	E6
		33	146	LSS1TE1CF08D036	13,644	E6
		41	185	LSS1TE1CF06E036	18,913	E6
		55	247	LSS1TE1CF08E036	20,464	E6

Stroke		Force		Catalog Number	List Price	Mult. Sym.
Inch	[m]	Lbs.	N			
42	1.1	6	27	LSS1TE1CF04B042	11,507	E6
		13	57	LSS1TE1CF04C042	11,742	E6
		16	73	LSS1TE1CF04D042	12,567	E6
		19	86	LSS1TE1CF06C042	12,259	E6
		24	109	LSS1TE1CF06D042	13,601	E6
		26	116	LSS1TE1CF08C042	12,775	E6
		28	124	LSS1TE1CF04E042	18,852	E6
		33	146	LSS1TE1CF08D042	14,635	E6
		41	185	LSS1TE1CF06E042	20,402	E6
		55	247	LSS1TE1CF08E042	21,953	E6
48	1.2	6	27	LSS1TE1CF04B048	12,480	E6
		13	57	LSS1TE1CF04C048	12,734	E6
		16	73	LSS1TE1CF04D048	13,559	E6
		19	86	LSS1TE1CF06C048	13,249	E6
		24	109	LSS1TE1CF06D048	14,593	E6
		26	116	LSS1TE1CF08C048	13,196	E6
		28	124	LSS1TE1CF04E048	20,340	E6
		33	146	LSS1TE1CF08D048	15,627	E6
		41	185	LSS1TE1CF06E048	21,891	E6
		55	247	LSS1TE1CF08E048	23,440	E6
54	1.4	6	27	LSS1TE1CF04B054	13,451	E6
		13	57	LSS1TE1CF04C054	13,726	E6
		16	73	LSS1TE1CF04D054	14,551	E6
		19	86	LSS1TE1CF06C054	14,242	E6
		24	109	LSS1TE1CF06D054	15,587	E6
		26	116	LSS1TE1CF08C054	14,759	E6
		28	124	LSS1TE1CF04E054	21,827	E6
		33	146	LSS1TE1CF08D054	16,620	E6
		41	185	LSS1TE1CF06E054	23,377	E6
		55	247	LSS1TE1CF08E054	24,929	E6
60	1.5	6	27	LSS1TE1CF04B060	14,423	E6
		13	57	LSS1TE1CF04C060	14,718	E6
		16	73	LSS1TE1CF04D060	15,545	E6
		19	86	LSS1TE1CF06C060	15,234	E6
		24	109	LSS1TE1CF06D060	16,578	E6
		26	116	LSS1TE1CF08C060	15,752	E6
		28	124	LSS1TE1CF04E060	23,316	E6
		33	146	LSS1TE1CF08D060	17,611	E6
		41	185	LSS1TE1CF06E060	24,866	E6
		55	247	LSS1TE1CF08E060	26,415	E6
66	1.7	6	27	LSS1TE1CF04B066	15,396	E6
		13	57	LSS1TE1CF04C066	15,710	E6
		16	73	LSS1TE1CF04D066	16,538	E6
		19	86	LSS1TE1CF06C066	16,226	E6
		24	109	LSS1TE1CF06D066	17,570	E6
		26	116	LSS1TE1CF08C066	16,744	E6
		28	124	LSS1TE1CF04E066	24,804	E6
		33	146	LSS1TE1CF08D066	18,602	E6
		41	185	LSS1TE1CF06E066	26,355	E6
		55	247	LSS1TE1CF08E066	27,905	E6
72	1.8	6	27	LSS1TE1CF04B072	16,367	E6
		13	57	LSS1TE1CF04C072	16,702	E6
		16	73	LSS1TE1CF04D072	17,530	E6
		19	86	LSS1TE1CF06C072	17,218	E6
		24	109	LSS1TE1CF06D072	18,562	E6
		26	116	LSS1TE1CF08C072	17,735	E6
		28	124	LSS1TE1CF04E072	26,294	E6
		33	146	LSS1TE1CF08D072	19,595	E6
		41	185	LSS1TE1CF06E072	27,843	E6
		55	247	LSS1TE1CF08E072	29,394	E6

**NOTE:** When placing an order in BUS, the spec numbers will begin with "IS".

Refer to notes on next page

Motion Controls

AC Controls

AC Motors

DC Controls

DC Motors

Linear Motors

Linear Stages

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# Linear Stage Single Bearing



## LSS-Series (Continued)

Stroke		Force		Catalog Number	List Price	Mult. Sym.
Inch	[m]	Lbs.	N			
78	2.0	6	27	LSS1TE1CF04B078	17,339	E6
		13	57	LSS1TE1CF04C078	17,694	E6
		16	73	LSS1TE1CF04D078	18,520	E6
		19	86	LSS1TE1CF06C078	18,210	E6
		24	109	LSS1TE1CF06D078	19,555	E6
		26	116	LSS1TE1CF08C078	18,727	E6
		28	124	LSS1TE1CF04E078	27,781	E6
		33	146	LSS1TE1CF08D078	20,588	E6
		41	185	LSS1TE1CF06E078	29,331	E6
		55	247	LSS1TE1CF08E078	30,881	E6
84	2.1	6	27	LSS1TE1CF04B084	18,311	E6
		13	57	LSS1TE1CF04C084	18,686	E6
		16	73	LSS1TE1CF04D084	19,513	E6
		19	86	LSS1TE1CF06C084	19,203	E6
		24	109	LSS1TE1CF06D084	20,547	E6
		26	116	LSS1TE1CF08C084	19,731	E6
		28	124	LSS1TE1CF04E084	29,269	E6
		33	146	LSS1TE1CF08D084	21,580	E6
		41	185	LSS1TE1CF06E084	30,819	E6
		55	247	LSS1TE1CF08E084	32,369	E6
90	2.3	6	27	LSS1TE1CF04B090	19,284	E6
		13	57	LSS1TE1CF04C090	19,677	E6
		16	73	LSS1TE1CF04D090	20,505	E6
		19	86	LSS1TE1CF06C090	20,196	E6
		24	109	LSS1TE1CF06D090	21,538	E6
		26	116	LSS1TE1CF08C090	20,712	E6
		28	124	LSS1TE1CF04E090	30,757	E6
		33	146	LSS1TE1CF08D090	22,572	E6
		41	185	LSS1TE1CF06E090	29,201	E6
		55	247	LSS1TE1CF08E090	33,857	E6
96	2.4	6	27	LSS1TE1CF04B096	20,255	E6
		13	57	LSS1TE1CF04C096	20,670	E6
		16	73	LSS1TE1CF04D096	21,497	E6
		19	86	LSS1TE1CF06C096	21,188	E6
		24	109	LSS1TE1CF06D096	22,529	E6
		26	116	LSS1TE1CF08C096	21,704	E6
		28	124	LSS1TE1CF04E096	32,245	E6
		33	146	LSS1TE1CF08D096	23,566	E6
		41	185	LSS1TE1CF06E096	33,795	E6
		55	247	LSS1TE1CF08E096	35,346	E6

Example catalog number: LSS1TE1CF08E096

Linear Encoder Option

**NOTE:** When placing an order in BUS, the spec numbers will begin with "IS".

Standard units include 5µm linear encoder (Code E).  
Use following adders for different linear encoder resolutions:

Code	Resolution	List Adder
A	0.1 µm	1155
B	0.5 µm	867
C	1 µm	578
D	2 µm	289
E	5 µm	Std
F	10 µm	N/C
Z	other	contact factory

# Linear Stage Extruded



## LSX-Series

Stroke		Force		Catalog Number	List Price	Mult. Sym.
Inch	[m]	Lbs.	N			
6	0.1524	20	89	LSX1TEBL06A006	9,297	E6
		30	133	LSX1TEBL08A006	9,883	E6
		40	178	LSX1TEBL10A006	10,344	E6
		50	222	LSX1TEBL12A006	10,901	E6
		60	266	LSX1TEBL14A006	11,429	E6
		70	310	LSX1TEBL16A006	11,872	E6
		80	356	LSX1TEBL18A006	12,180	E6
12	0.3048	20	89	LSX1TEBL06A012	10,219	E6
		30	133	LSX1TEBL08A012	10,868	E6
		40	178	LSX1TEBL10A012	11,347	E6
		50	222	LSX1TEBL12A012	11,904	E6
		60	266	LSX1TEBL14A012	12,431	E6
		70	310	LSX1TEBL16A012	12,876	E6
		80	356	LSX1TEBL18A012	13,184	E6
18	0.4572	20	89	LSX1TEBL06A018	11,119	E6
		30	133	LSX1TEBL08A018	11,768	E6
		40	178	LSX1TEBL10A018	12,248	E6
		50	222	LSX1TEBL12A018	12,804	E6
		60	266	LSX1TEBL14A018	13,330	E6
		70	310	LSX1TEBL16A018	13,775	E6
		80	356	LSX1TEBL18A018	14,084	E6
24	0.6096	20	89	LSX1TEBL06A024	12,116	E6
		30	133	LSX1TEBL08A024	12,668	E6
		40	178	LSX1TEBL10A024	13,148	E6
		50	222	LSX1TEBL12A024	13,704	E6
		60	266	LSX1TEBL14A024	14,230	E6
		70	310	LSX1TEBL16A024	14,675	E6
		80	356	LSX1TEBL18A024	14,983	E6
30	0.762	20	89	LSX1TEBL06A030	13,219	E6
		30	133	LSX1TEBL08A030	13,720	E6
		40	178	LSX1TEBL10A030	14,200	E6
		50	222	LSX1TEBL12A030	14,706	E6
		60	266	LSX1TEBL14A030	14,079	E6
		70	310	LSX1TEBL16A030	15,679	E6
		80	356	LSX1TEBL18A030	15,987	E6
36	0.9144	20	89	LSX1TEBL06A036	14,282	E6
		30	133	LSX1TEBL08A036	14,718	E6
		40	178	LSX1TEBL10A036	15,197	E6
		50	222	LSX1TEBL12A036	15,607	E6
		60	266	LSX1TEBL14A036	16,134	E6
		70	310	LSX1TEBL16A036	16,578	E6
		80	356	LSX1TEBL18A036	16,887	E6
42	1.0668	20	89	LSX1TEBL06A042	15,264	E6
		30	133	LSX1TEBL08A042	15,766	E6
		40	178	LSX1TEBL10A042	16,244	E6
		50	222	LSX1TEBL12A042	16,655	E6
		60	266	LSX1TEBL14A042	17,181	E6
		70	310	LSX1TEBL16A042	17,478	E6
		80	356	LSX1TEBL18A042	17,786	E6
48	1.2192	20	89	LSX1TEBL06A048	16,366	E6
		30	133	LSX1TEBL08A048	16,867	E6
		40	178	LSX1TEBL10A048	17,346	E6
		50	222	LSX1TEBL12A048	17,755	E6
		60	266	LSX1TEBL14A048	18,283	E6
		70	310	LSX1TEBL16A048	18,530	E6
		80	356	LSX1TEBL18A048	18,839	E6

Stroke		Force		Catalog Number	List Price	Mult. Sym.
Inch	[m]	Lbs.	N			
54	1.3716	20	89	LSX1TEBL06A054	17,414	E6
		30	133	LSX1TEBL08A054	17,915	E6
		40	178	LSX1TEBL10A054	18,393	E6
		50	222	LSX1TEBL12A054	18,803	E6
		60	266	LSX1TEBL14A054	19,330	E6
		70	310	LSX1TEBL16A054	19,578	E6
		80	356	LSX1TEBL18A054	19,885	E6
60	1.524	20	89	LSX1TEBL06A060	18,412	E6
		30	133	LSX1TEBL08A060	18,913	E6
		40	178	LSX1TEBL10A060	19,393	E6
		50	222	LSX1TEBL12A060	19,801	E6
		60	266	LSX1TEBL14A060	20,328	E6
		70	310	LSX1TEBL16A060	20,576	E6
		80	356	LSX1TEBL18A060	20,885	E6
66	1.6764	20	89	LSX1TEBL06A066	19,513	E6
		30	133	LSX1TEBL08A066	20,013	E6
		40	178	LSX1TEBL10A066	20,493	E6
		50	222	LSX1TEBL12A066	20,903	E6
		60	266	LSX1TEBL14A066	21,430	E6
		70	310	LSX1TEBL16A066	21,677	E6
		80	356	LSX1TEBL18A066	21,985	E6
72	1.8288	20	89	LSX1TEBL06A072	20,561	E6
		30	133	LSX1TEBL08A072	21,062	E6
		40	178	LSX1TEBL10A072	21,541	E6
		50	222	LSX1TEBL12A072	21,951	E6
		60	266	LSX1TEBL14A072	22,478	E6
		70	310	LSX1TEBL16A072	22,725	E6
		80	356	LSX1TEBL18A072	23,033	E6
78	1.9812	20	89	LSX1TEBL06A078	21,559	E6
		30	133	LSX1TEBL08A078	22,060	E6
		40	178	LSX1TEBL10A078	22,540	E6
		50	222	LSX1TEBL12A078	22,948	E6
		60	266	LSX1TEBL14A078	23,476	E6
		70	310	LSX1TEBL16A078	23,723	E6
		80	356	LSX1TEBL18A078	24,032	E6
84	2.1336	20	89	LSX1TEBL06A084	22,710	E6
		30	133	LSX1TEBL08A084	23,211	E6
		40	178	LSX1TEBL10A084	23,690	E6
		50	222	LSX1TEBL12A084	24,099	E6
		60	266	LSX1TEBL14A084	24,626	E6
		70	310	LSX1TEBL16A084	24,874	E6
		80	356	LSX1TEBL18A084	25,183	E6
90	2.286	20	89	LSX1TEBL06A090	23,708	E6
		30	133	LSX1TEBL08A090	24,209	E6
		40	178	LSX1TEBL10A090	24,689	E6
		50	222	LSX1TEBL12A090	25,098	E6
		60	266	LSX1TEBL14A090	25,625	E6
		70	310	LSX1TEBL16A090	25,872	E6
		80	356	LSX1TEBL18A090	26,181	E6
96	2.4384	20	89	LSX1TEBL06A096	24,706	E6
		30	133	LSX1TEBL08A096	25,208	E6
		40	178	LSX1TEBL10A096	25,687	E6
		50	222	LSX1TEBL12A096	26,096	E6
		60	266	LSX1TEBL14A096	26,623	E6
		70	310	LSX1TEBL16A096	26,871	E6
		80	356	LSX1TEBL18A096	27,179	E6

**NOTE:** When placing an order in BUS, the spec numbers will begin with "IX".

Motion Controls  
AC Controls  
AC Motors  
DC Controls  
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# Linear Stage Extruded



## LSX-Series (Continued)

Stroke		Force		Catalog Number	List Price	Mult. Sym.
Inch	[m]	Lbs.	N			
102	2.5908	20	89	LSX1TEBL06A102	25,857	E6
		30	133	LSX1TEBL08A102	26,359	E6
		40	178	LSX1TEBL10A102	26,837	E6
		50	222	LSX1TEBL12A102	27,247	E6
		60	266	LSX1TEBL14A102	27,774	E6
		70	310	LSX1TEBL16A102	28,021	E6
108	2.7432	20	89	LSX1TEBL06A108	26,855	E6
		30	133	LSX1TEBL08A108	27,357	E6
		40	178	LSX1TEBL10A108	27,836	E6
		50	222	LSX1TEBL12A108	28,244	E6
		60	266	LSX1TEBL14A108	28,773	E6
		70	310	LSX1TEBL16A108	29,019	E6
114	2.8956	20	89	LSX1TEBL06A114	27,903	E6
		30	133	LSX1TEBL08A114	28,404	E6
		40	178	LSX1TEBL10A114	28,884	E6
		50	222	LSX1TEBL12A114	29,292	E6
		60	266	LSX1TEBL14A114	29,820	E6
		70	310	LSX1TEBL16A114	30,067	E6
120	3.048	20	89	LSX1TEBL06A120	29,005	E6
		30	133	LSX1TEBL08A120	29,505	E6
		40	178	LSX1TEBL10A120	29,985	E6
		50	222	LSX1TEBL12A120	30,394	E6
		60	266	LSX1TEBL14A120	30,921	E6
		70	310	LSX1TEBL16A120	31,169	E6
		80	356	LSX1TEBL18A120	31,477	E6

Example catalog number: LSX1TEBL18A150

Linear Encoder Option

**NOTE:** When placing an order in BUS, the spec numbers will begin with "IX".

Standard units include 5µm linear encoder (Code E).

Use following adders for different linear encoder resolutions:

Code	Resolution	List Adder
E	5 µm	Std
F	10 µm	N/C
G	20 µm	N/C
Z	other	contact factory

# Linear Stage Enclosed Positioning



## LSE-Series

Stroke		Stage Width								Mult. Sym.
		8 Inch [230mm]		12 Inch [305mm]				14 Inch [355mm]		
		Catalog Number	List Price	Catalog Number	List Price	Catalog Number	List Price	Catalog Number	List Price	
12	0.30	LSE081E1BL06A12	13,891	LSE121E1BL06A12	14,264	LSE121E1BL06B12	15,491	LSE141E2BL06B12	23,007	E6
		LSE081E1BL08A12	14,511	LSE121E1BL08A12	14,884	LSE121E1BL08B12	16,298	LSE141E2BL08B12	24,645	E6
		LSE081E1BL10A12	15,131	LSE121E1BL10A12	15,504	LSE121E1BL10B12	17,141	LSE141E2BL10B12	26,460	E6
		LSE081E1BL12A12	15,750	LSE121E1BL12A12	16,122	LSE121E1BL12B12	17,984	LSE141E2BL12B12	28,278	E6
		LSE081E1BL14A12	16,370	LSE121E1BL14A12	16,743	LSE121E1BL14B12	18,827	LSE141E2BL14B12	30,091	E6
		LSE081E1BL16A12	16,991	LSE121E1BL16A12	17,362	LSE121E1BL16B12	19,671	LSE141E2BL16B12	31,908	E6
		LSE081E1BL18A12	17,612	LSE121E1BL18A12	17,984	LSE121E1BL18B12	20,475	LSE141E2BL18B12	33,545	E6
18	0.46	LSE081E1BL06A18	14,884	LSE121E1BL06A18	15,255	LSE121E1BL06B18	16,706	LSE141E2BL06B18	25,270	E6
		LSE081E1BL08A18	15,503	LSE121E1BL08A18	15,874	LSE121E1BL08B18	17,511	LSE141E2BL08B18	26,908	E6
		LSE081E1BL10A18	16,123	LSE121E1BL10A18	16,494	LSE121E1BL10B18	18,356	LSE141E2BL10B18	28,723	E6
		LSE081E1BL12A18	16,743	LSE121E1BL12A18	17,114	LSE121E1BL12B18	19,199	LSE141E2BL12B18	30,539	E6
		LSE081E1BL14A18	17,362	LSE121E1BL14A18	17,737	LSE121E1BL14B18	20,042	LSE141E2BL14B18	32,354	E6
		LSE081E1BL16A18	17,984	LSE121E1BL16A18	18,356	LSE121E1BL16B18	20,885	LSE141E2BL16B18	34,170	E6
		LSE081E1BL18A18	18,602	LSE121E1BL18A18	18,976	LSE121E1BL18B18	21,691	LSE141E2BL18B18	35,805	E6
24	0.61	LSE081E1BL06A24	15,998	LSE121E1BL06A24	16,371	LSE121E1BL06B24	18,046	LSE141E2BL06B24	27,683	E6
		LSE081E1BL08A24	16,619	LSE121E1BL08A24	16,993	LSE121E1BL08B24	18,851	LSE141E2BL08B24	29,318	E6
		LSE081E1BL10A24	17,240	LSE121E1BL10A24	17,612	LSE121E1BL10B24	19,694	LSE141E2BL10B24	31,134	E6
		LSE081E1BL12A24	17,858	LSE121E1BL12A24	18,232	LSE121E1BL12B24	20,537	LSE141E2BL12B24	32,948	E6
		LSE081E1BL14A24	18,480	LSE121E1BL14A24	18,851	LSE121E1BL14B24	21,382	LSE141E2BL14B24	34,768	E6
		LSE081E1BL16A24	19,100	LSE121E1BL16A24	19,472	LSE121E1BL16B24	22,225	LSE141E2BL16B24	36,579	E6
		LSE081E1BL18A24	19,719	LSE121E1BL18A24	20,091	LSE121E1BL18B24	23,030	LSE141E2BL18B24	38,218	E6
30	0.76	LSE081E1BL06A30	16,892	LSE121E1BL06A30	17,488	LSE121E1BL06B30	19,385	LSE141E2BL06B30	30,091	E6
		LSE081E1BL08A30	17,737	LSE121E1BL08A30	18,108	LSE121E1BL08B30	20,192	LSE141E2BL08B30	31,729	E6
		LSE081E1BL10A30	18,356	LSE121E1BL10A30	18,727	LSE121E1BL10B30	21,035	LSE141E2BL10B30	33,545	E6
		LSE081E1BL12A30	18,976	LSE121E1BL12A30	19,348	LSE121E1BL12B30	21,878	LSE141E2BL12B30	35,360	E6
		LSE081E1BL14A30	19,596	LSE121E1BL14A30	19,966	LSE121E1BL14B30	22,721	LSE141E2BL14B30	37,177	E6
		LSE081E1BL16A30	20,215	LSE121E1BL16A30	20,589	LSE121E1BL16B30	23,565	LSE141E2BL16B30	38,992	E6
		LSE081E1BL18A30	20,836	LSE121E1BL18A30	21,209	LSE121E1BL18B30	24,371	LSE141E2BL18B30	40,627	E6
36	0.91	LSE081E1BL06A36	18,232	LSE121E1BL06A36	18,602	LSE121E1BL06B36	20,724	LSE141E2BL06B36	32,504	E6
		LSE081E1BL08A36	18,851	LSE121E1BL08A36	19,223	LSE121E1BL08B36	21,531	LSE141E2BL08B36	34,139	E6
		LSE081E1BL10A36	19,472	LSE121E1BL10A36	19,844	LSE121E1BL10B36	22,374	LSE141E2BL10B36	35,957	E6
		LSE081E1BL12A36	20,091	LSE121E1BL12A36	20,463	LSE121E1BL12B36	23,216	LSE141E2BL12B36	37,770	E6
		LSE081E1BL14A36	20,711	LSE121E1BL14A36	21,084	LSE121E1BL14B36	24,059	LSE141E2BL14B36	39,589	E6
		LSE081E1BL16A36	21,330	LSE121E1BL16A36	21,705	LSE121E1BL16B36	24,950	LSE141E2BL16B36	41,402	E6
		LSE081E1BL18A36	21,953	LSE121E1BL18A36	22,323	LSE121E1BL18B36	25,711	LSE141E2BL18B36	43,041	E6

**NOTE:** When placing an order in BUS, the spec numbers will begin with "E".

Motion Controls  
AC Controls  
AC Motors  
DC Controls  
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# Linear Stage Enclosed Positioning



## LSE-Series (Continued)

Stroke		Stage Width								Mult. Sym.
		8 Inch [230mm]		12 Inch [305mm]				14 Inch [355mm]		
Inch	[m]	Catalog Number	List Price	Catalog Number	List Price	Catalog Number	List Price	Catalog Number	List Price	
42	1.07	LSE081E1BL06A42	19,348	LSE121E1BL06A42	19,719	LSE121E1BL06B42	22,064	LSE141E2BL06B42	34,914	E6
		LSE081E1BL08A42	19,966	LSE121E1BL08A42	20,340	LSE121E1BL08B42	22,868	LSE141E2BL08B42	36,551	E6
		LSE081E1BL10A42	20,589	LSE121E1BL10A42	20,958	LSE121E1BL10B42	23,715	LSE141E2BL10B42	38,366	E6
		LSE081E1BL12A42	21,209	LSE121E1BL12A42	21,580	LSE121E1BL12B42	24,557	LSE141E2BL12B42	40,183	E6
		LSE081E1BL14A42	21,828	LSE121E1BL14A42	22,201	LSE121E1BL14B42	25,400	LSE141E2BL14B42	41,998	E6
		LSE081E1BL16A42	22,448	LSE121E1BL16A42	22,819	LSE121E1BL16B42	26,242	LSE141E2BL16B42	43,812	E6
		LSE081E1BL18A42	23,068	LSE121E1BL18A42	23,988	LSE121E1BL18B42	27,050	LSE141E2BL18B42	45,451	E6
48	1.22	LSE081E1BL06A48	18,497	LSE121E1BL06A48	20,836	LSE121E1BL06B48	23,403	LSE141E2BL06B48	37,325	E6
		LSE081E1BL08A48	21,084	LSE121E1BL08A48	21,456	LSE121E1BL08B48	24,209	LSE141E2BL08B48	38,961	E6
		LSE081E1BL10A48	21,705	LSE121E1BL10A48	22,076	LSE121E1BL10B48	25,052	LSE141E2BL10B48	40,776	E6
		LSE081E1BL12A48	22,323	LSE121E1BL12A48	22,695	LSE121E1BL12B48	25,896	LSE141E2BL12B48	42,595	E6
		LSE081E1BL14A48	22,944	LSE121E1BL14A48	23,317	LSE121E1BL14B48	26,738	LSE141E2BL14B48	44,408	E6
		LSE081E1BL16A48	23,565	LSE121E1BL16A48	23,935	LSE121E1BL16B48	27,583	LSE141E2BL16B48	46,226	E6
		LSE081E1BL18A48	24,183	LSE121E1BL18A48	24,557	LSE121E1BL18B48	28,389	LSE141E2BL18B48	47,861	E6
54	1.37	LSE081E1BL06A54	22,323	LSE121E1BL06A54	22,695	LSE121E1BL06B54	25,485	LSE141E2BL06B54	40,627	E6
		LSE081E1BL08A54	22,944	LSE121E1BL08A54	23,317	LSE121E1BL08B54	26,241	LSE141E2BL08B54	42,266	E6
		LSE081E1BL10A54	23,565	LSE121E1BL10A54	23,936	LSE121E1BL10B54	27,137	LSE141E2BL10B54	44,081	E6
		LSE081E1BL12A54	24,183	LSE121E1BL12A54	24,557	LSE121E1BL12B54	27,979	LSE141E2BL12B54	45,897	E6
		LSE081E1BL14A54	24,804	LSE121E1BL14A54	25,175	LSE121E1BL14B54	28,822	LSE141E2BL14B54	47,711	E6
		LSE081E1BL16A54	25,426	LSE121E1BL16A54	25,797	LSE121E1BL16B54	29,665	LSE141E2BL16B54	49,528	E6
		LSE081E1BL18A54	26,045	LSE121E1BL18A54	26,416	LSE121E1BL18B54	30,471	LSE141E2BL18B54	51,165	E6
60	1.52	LSE081E1BL06A60	24,059	LSE121E1BL06A60	24,432	LSE121E1BL06B60	27,445	LSE141E2BL06B60	43,785	E6
		LSE081E1BL08A60	24,680	LSE121E1BL08A60	25,052	LSE121E1BL08B60	28,252	LSE141E2BL08B60	45,420	E6
		LSE081E1BL10A60	25,301	LSE121E1BL10A60	25,673	LSE121E1BL10B60	29,095	LSE141E2BL10B60	47,236	E6
		LSE081E1BL12A60	25,921	LSE121E1BL12A60	26,291	LSE121E1BL12B60	29,938	LSE141E2BL12B60	49,051	E6
		LSE081E1BL14A60	26,540	LSE121E1BL14A60	26,912	LSE121E1BL14B60	30,781	LSE141E2BL14B60	50,867	E6
		LSE081E1BL16A60	27,161	LSE121E1BL16A60	27,535	LSE121E1BL16B60	31,625	LSE141E2BL16B60	52,683	E6
		LSE081E1BL18A60	27,780	LSE121E1BL18A60	28,152	LSE121E1BL18B60	32,433	LSE141E2BL18B60	54,320	E6
66	1.68	LSE081E1BL06A66	25,797	LSE121E1BL06A66	26,170	LSE121E1BL06B66	29,406	LSE141E2BL06B66	46,939	E6
		LSE081E1BL08A66	26,416	LSE121E1BL08A66	26,788	LSE121E1BL08B66	30,213	LSE141E2BL08B66	48,576	E6
		LSE081E1BL10A66	27,036	LSE121E1BL10A66	27,409	LSE121E1BL10B66	31,056	LSE141E2BL10B66	50,390	E6
		LSE081E1BL12A66	27,655	LSE121E1BL12A66	28,030	LSE121E1BL12B66	31,898	LSE141E2BL12B66	52,208	E6
		LSE081E1BL14A66	28,278	LSE121E1BL14A66	28,648	LSE121E1BL14B66	32,742	LSE141E2BL14B66	54,022	E6
		LSE081E1BL16A66	28,898	LSE121E1BL16A66	29,270	LSE121E1BL16B66	33,585	LSE141E2BL16B66	55,838	E6
		LSE081E1BL18A66	29,517	LSE121E1BL18A66	29,890	LSE121E1BL18B66	34,391	LSE141E2BL18B66	57,474	E6

**NOTE:** When placing an order in BUS, the spec numbers will begin with "IE".



# Linear Stage Enclosed Positioning



## LSE-Series (Continued)

Stroke		Stage Width								Mult. Sym.
		8 Inch [230mm]		12 Inch [305mm]				14 Inch [355mm]		
		Catalog Number	List Price	Catalog Number	List Price	Catalog Number	List Price	Catalog Number	List Price	
72	1.83	LSE081E1BL06A72	27,535	LSE121E1BL06A72	27,904	LSE121E1BL06B72	31,365	LSE141E2BL06B72	50,094	E6
		LSE081E1BL08A72	28,152	LSE121E1BL08A72	28,526	LSE121E1BL08B72	32,171	LSE141E2BL08B72	51,732	E6
		LSE081E1BL10A72	28,774	LSE121E1BL10A72	29,143	LSE121E1BL10B72	33,015	LSE141E2BL10B72	53,546	E6
		LSE081E1BL12A72	29,393	LSE121E1BL12A72	29,765	LSE121E1BL12B72	33,859	LSE141E2BL12B72	55,363	E6
		LSE081E1BL14A72	30,013	LSE121E1BL14A72	30,386	LSE121E1BL14B72	34,702	LSE141E2BL14B72	57,177	E6
		LSE081E1BL16A72	30,633	LSE121E1BL16A72	31,005	LSE121E1BL16B72	35,545	LSE141E2BL16B72	58,993	E6
LSE081E1BL18A72	31,253	LSE121E1BL18A72	31,625	LSE121E1BL18B72	36,349	LSE141E2BL18B72	60,631	E6		
78	1.98	LSE081E1BL06A78	29,270	LSE121E1BL06A78	29,642	LSE121E1BL06B78	33,324	LSE141E2BL06B78	53,250	E6
		LSE081E1BL08A78	29,890	LSE121E1BL08A78	30,261	LSE121E1BL08B78	34,130	LSE141E2BL08B78	54,886	E6
		LSE081E1BL10A78	30,508	LSE121E1BL10A78	30,881	LSE121E1BL10B78	34,973	LSE141E2BL10B78	56,702	E6
		LSE081E1BL12A78	31,129	LSE121E1BL12A78	31,499	LSE121E1BL12B78	35,816	LSE141E2BL12B78	58,516	E6
		LSE081E1BL14A78	31,751	LSE121E1BL14A78	32,121	LSE121E1BL14B78	36,659	LSE141E2BL14B78	60,332	E6
		LSE081E1BL16A78	32,370	LSE121E1BL16A78	32,742	LSE121E1BL16B78	37,502	LSE141E2BL16B78	62,148	E6
LSE081E1BL18A78	32,990	LSE121E1BL18A78	33,361	LSE121E1BL18B78	38,309	LSE141E2BL18B78	63,787	E6		
84	2.13	LSE081E1BL06A84	31,005	LSE121E1BL06A84	31,377	LSE121E1BL06B84	35,283	LSE141E2BL06B84	56,405	E6
		LSE081E1BL08A84	31,625	LSE121E1BL08A84	31,997	LSE121E1BL08B84	36,089	LSE141E2BL08B84	58,041	E6
		LSE081E1BL10A84	32,247	LSE121E1BL10A84	32,616	LSE121E1BL10B84	36,932	LSE141E2BL10B84	59,855	E6
		LSE081E1BL12A84	32,865	LSE121E1BL12A84	33,237	LSE121E1BL12B84	37,777	LSE141E2BL12B84	61,673	E6
		LSE081E1BL14A84	33,486	LSE121E1BL14A84	33,859	LSE121E1BL14B84	38,621	LSE141E2BL14B84	63,487	E6
		LSE081E1BL16A84	34,106	LSE121E1BL16A84	34,478	LSE121E1BL16B84	39,464	LSE141E2BL16B84	65,304	E6
LSE081E1BL18A84	34,725	LSE121E1BL18A84	35,098	LSE121E1BL18B84	40,269	LSE141E2BL18B84	66,939	E6		
90	2.29	LSE081E1BL06A90	32,742	LSE121E1BL06A90	33,111	LSE121E1BL06B90	37,244	LSE141E2BL06B90	59,560	E6
		LSE081E1BL08A90	33,361	LSE121E1BL08A90	33,734	LSE121E1BL08B90	38,036	LSE141E2BL08B90	61,194	E6
		LSE081E1BL10A90	33,982	LSE121E1BL10A90	34,354	LSE121E1BL10B90	38,892	LSE141E2BL10B90	63,011	E6
		LSE081E1BL12A90	34,601	LSE121E1BL12A90	34,973	LSE121E1BL12B90	39,736	LSE141E2BL12B90	64,827	E6
		LSE081E1BL14A90	35,221	LSE121E1BL14A90	35,593	LSE121E1BL14B90	40,579	LSE141E2BL14B90	66,643	E6
		LSE081E1BL16A90	35,843	LSE121E1BL16A90	36,215	LSE121E1BL16B90	41,423	LSE141E2BL16B90	68,458	E6
LSE081E1BL18A90	36,463	LSE121E1BL18A90	36,833	LSE121E1BL18B90	42,228	LSE141E2BL18B90	70,095	E6		
96	2.44	LSE081E1BL06A96	34,478	LSE121E1BL06A96	34,850	LSE121E1BL06B96	37,244	LSE141E2BL06B96	59,560	E6
		LSE081E1BL08A96	35,098	LSE121E1BL08A96	35,468	LSE121E1BL08B96	38,049	LSE141E2BL08B96	61,194	E6
		LSE081E1BL10A96	35,717	LSE121E1BL10A96	36,089	LSE121E1BL10B96	38,892	LSE141E2BL10B96	63,011	E6
		LSE081E1BL12A96	36,338	LSE121E1BL12A96	36,711	LSE121E1BL12B96	39,736	LSE141E2BL12B96	64,827	E6
		LSE081E1BL14A96	36,958	LSE121E1BL14A96	37,329	LSE121E1BL14B96	40,579	LSE141E2BL14B96	66,643	E6
		LSE081E1BL16A96	37,578	LSE121E1BL16A96	37,951	LSE121E1BL16B96	41,423	LSE141E2BL16B96	68,458	E6
LSE081E1BL18A96	38,197	LSE121E1BL18A96	38,569	LSE121E1BL18B96	42,228	LSE141E2BL18B96	70,095	E6		

Example catalog number: LSE141E1BL18B144  
 └───┬─── Number of Motors  
 └───┬─── Linear Encoder Option

**NOTE:** When placing an order in BUS, the spec numbers will begin with "IE".

Standard units include 5µm linear encoder (Code E).  
 Use following adders for different linear encoder resolutions:

Code	Resolution	List Adder
A	0.1 µm	1155
B	0.5 µm	867
C	1 µm	578
D	2 µm	289

Code	Resolution	List Adder
E	5 µm	Std
F	10 µm	N/C
G	20 µm	N/C
Z	other	contact factory

Motion Controls

AC Controls

AC Motors

DC Controls

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Motion Controls  
**Linear Stage Cross Roller**



AC Controls  
**LSC-Series**

AC Motors

DC Controls

DC Motors

Stroke		Cont. Force		Stage Width		
				8 Inch [230mm]		
Inch	M	Lbs.	N	Catalog Number	List Price	Mult. Sym.
4	0.10	10	44.5	LSC1XC1BL02A04	10,160	E6
		15	66.8	LSC1XC1BL04A04	10,351	E6
		20	89	LSC1XC1BL06A04	10,600	E6
		30	133.4	LSC1XC1BL08A04	11,016	E6
		40	177.9	LSC1XC1BL10A04	11,448	E6
		50	222	LSC1XC1BL12A04	11,784	E6
6	0.15	10	44.5	LSC1XC1BL02A06	11,477	E6
		15	66.8	LSC1XC1BL04A06	11,668	E6
		20	89	LSC1XC1BL06A06	11,906	E6
		30	133.4	LSC1XC1BL08A06	12,301	E6
		40	177.9	LSC1XC1BL10A06	12,707	E6
		50	222	LSC1XC1BL12A06	13,065	E6
8	0.20	10	44.5	LSC1XC1BL02A08	12,806	E6
		15	66.8	LSC1XC1BL04A08	12,997	E6
		20	89	LSC1XC1BL06A08	13,214	E6
		30	133.4	LSC1XC1BL08A08	13,589	E6
		40	177.9	LSC1XC1BL10A08	13,967	E6
		50	222	LSC1XC1BL12A08	14,347	E6
10	0.25	10	44.5	LSC1XC1BL02A10	14,120	E6
		15	66.8	LSC1XC1BL04A10	14,310	E6
		20	89	LSC1XC1BL06A10	14,521	E6
		30	133.4	LSC1XC1BL08A10	14,874	E6
		40	177.9	LSC1XC1BL10A10	15,229	E6
		50	222	LSC1XC1BL12A10	15,587	E6
12	0.30	10	44.5	LSC1XC1BL02A12	15,449	E6
		15	66.8	LSC1XC1BL04A12	15,639	E6
		20	89	LSC1XC1BL06A12	15,827	E6
		30	133.4	LSC1XC1BL08A12	16,160	E6
		40	177.9	LSC1XC1BL10A12	16,489	E6
		50	222	LSC1XC1BL12A12	16,868	E6

Example catalog number: LSC1XC1BL12A12  
 Mounting \_\_\_\_\_ Number of Motors \_\_\_\_\_  
 Linear Encoder Option \_\_\_\_\_

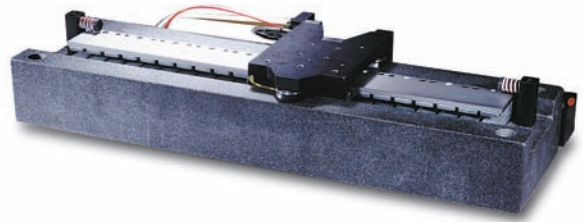
**NOTE:** When placing an order in BUS, the spec numbers will begin with "IK".  
 Under mounting option, specify either T = Table or W = Wall mounting.  
 Price is same for either option.  
 Standard units include 1 µm linear encoder (Code C).  
 Use following adders for different linear encoder resolutions:

Linear Motors

Linear Stages

Code	Resolution	List Adder
A	0.1 µm	578
B	0.5 µm	289
C	1 µm	Std
D	2 µm	N/C
E	5 µm	N/C
F	10 µm	N/C
G	20 µm	N/C
Z	other	contact factory

# Linear Stage Air Bearing



## LSA-Series

Stroke		Cont. Force		Catalog Number	List Price	Mult. Sym.
Inch	[m]	Lbs.	N			
13.6	0.35	16.5	73.6	LSA1TE1CF04D13	26,520	E6
18.4	0.47	16.5	73.6	LSA1TE1CF04D18	28,034	E6
23.2	0.59	16.5	73.6	LSA1TE1CF04D23	29,547	E6
28	0.71	16.5	73.6	LSA1TE1CF04D28	31,061	E6
32.8	0.83	16.5	73.6	LSA1TE1CF04D32	32,574	E6
37.6	0.96	16.5	73.6	LSA1TE1CF04D37	34,088	E6
42.4	1.08	16.5	73.6	LSA1TE1CF04D42	35,557	E6
47	1.2	16.5	73.6	LSA1TE1CF04D47	38,630	E6

Example catalog number: LSA1TE-CF04D-50

Mounting Option  Linear Encoder Option

**NOTE:** When placing an order in BUS, the spec numbers will begin with "12".  
Under mounting option, specify either T = Table or W = Wall mounting.  
Price is same for either option.  
Standard units include 1.0µm linear encoder (Code C).  
Use following adders for different linear encoder resolutions:

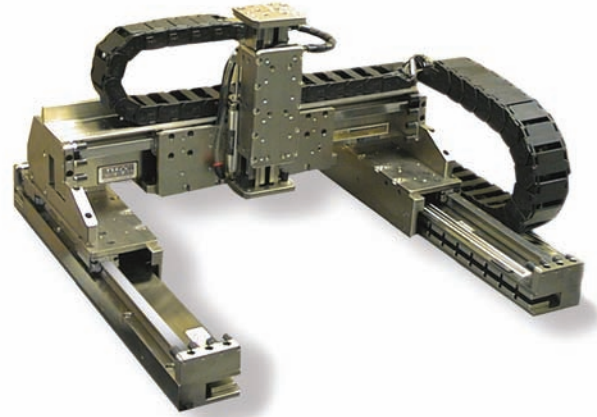
Code	Resolution	List Adder
A	0.1 µm	1155
B	0.5 µm	867
C	1 µm	578
D	2 µm	289

Code	Resolution	List Adder
E	5 µm	Std
F	10 µm	N/C
G	20 µm	N/C
Z	other	contact factory



## Linear Gantry Stage

**Features:** The Linear Gantry Stage provides X-Y-Z motion. It features linear brushless cog-free motors. It includes bearing, encoders, limit switches, cable carrier and option of bellows or covers.



## LSG-Series

Catalog Number	Description	List Price	Mult. Sym.
LSG-4TE1CF04C012012004	300 x 300 x 100 mm stroke X and Y-axis 50/160N (11/36 Lbs) cont/pk Z-axis 28/83N (6/18 Lbs) cont/pk with 5 micron encoders	20,629	E6
LSG-4TE1CF06D024024004	600 x 600 x 100 mm stroke X and Y-axis 110/350N (24/78 Lbs) cont/pk Z-axis 28/83N (6/18 Lbs) cont/pk with 5 micron encoders	34,266	E6
LSG-4TE1CF08E039039012	1000 x 1000 x 300 mm stroke X and Y-axis 250/750N (56/168 Lbs) cont/pk Z-axis 100/350N (22/78 Lbs) cont/pk with 5 micron encoders	72,141	E6

**NOTES:** Linear Gantries have counterbalanced Z-axis with air cylinders and fast acting regulator.

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ASR24662 .....	24	BSM63N-375AF .....	17	BSM90N-275AF .....	17	CBL061SP-FHCE .....	24, 25
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BSM100C-2150AF .....	15	BSM80C-175AA .....	15	BSM90N-375AA .....	16	CBL076SP-F .....	25
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BSM100C-3150BA .....	15	BSM80C-275AA .....	15	CBL004-502 .....	10	CBL091SF-APSS .....	25
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BSM100C-3250AF .....	15	BSM80C-275BA .....	15	CBL004-504 .....	10	CBL091SF-KPCEA5 .....	25
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