Screw Driven Tables

HD Series Linear Positioners

Features

- Pre-engineered package
- Performance matched components
- Two performance grades available standard and industrial
- Protection from environment
- Robust design exceptional beam strength

The HD Series linear table line is a robust, industrial positioner that is easy to apply, easy to install, and easy to maintain. The robust design begins with a deep channel extruded body and carriage that provide exceptional beam strength and carriage stiffness. The linear bearings and ballscrew are precision components selected for their long life at 100% duty operation. The HD Series also includes IP30 rated belt seals that protect the interior components from debris.

The HD Series is very easy to apply. As part of the configurable part number, users can select options such as screw lead, home and limit sensors, a fail safe brake, and motor orientation. With motors as part of the standard table, system-level performance is provided in the form of graphs to enable quick application without the need for a complex motor sizing exercise.

High Efficiency Ballscrew Drive

is precision ground or precision rolled and offered in 5, 10, 20, and 40 mm leads. Like the linear bearings the screw is self lubricating and is maintenance free for the life of the table.

Dowel Holes are provided in the base and carriage for repeatable mounting payloads and the table.

IP30 Rated Belt Seals protect the table's internal components from falling debris as well as enhance

High-Performance Brushless Servo Motor is performance-matched and included with the table in both in-line and parallel configurations. System level performance data is provided to minimize motor sizing requirements. /

Limit/Home Sensors

Hall effect sensors establish "end of travel" and "home" locations and are easily adjustable over the entire travel length. (not shown)

- T-Slot Mounting

is available along the entire body length for convenient attachment of accessories and for flexible toe clamp mounting.

Square Rail Linear Bearing

support the carriage and payload to provide high load capacity with smooth, precise, dependable motion. The bearings are self lubricating and therefore maintenance free over the life of the table.

Deep Channel Extruded Body

Provides significant beam strength, stiffness and is machined to provide exceptional straightness and flatness.

Fail-safe Brake

(not shown)

is available to prevent "back driving"

and halt carriage motion in vertical

applications during power down.

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the overall appearance.

Table Life/Load Compression (Normal) Load



The following performance information is provided as a supplement to the product specifications pages. The following graphs are used to establish the table life relative to the applied loads. The useful life of a linear table at full catalog specifications is dependent on the forces acting upon it. These forces include both static components resulting from payload weight and dynamic components due to acceleration/deceleration of the load. In multi-axes applications, the primary positioner at the bottom of the stack usually establishes the load limits for the combined axes. When determining life/load, it is critical to include the weight of all positioning elements that contribute to the load supported by the primary axis.

These charts are to be used in conjunction with the corresponding formulas found in the product manuals at www.parkermotion.com to establish the life/load for each bearing (4 per table).

Several dimensions, which are specific to each linear positioning table model, and the load geometry are required for these computations. These dimensions are supplied in the catalog information for each positioner. The dimensions are referenced as follows:

- d1 bearing block center-to-center longitudinal spacing
- d2 bearing rail center-to-center lateral spacing
- d3 Rail center-to-carriage mounting surface

Refer to Parker's website www.parkermotion.com for moment loading and other engineering data.



This graph provides evaluation of the support bearing life/load characteristics. The curves show the life/load relationship when the applied load is centered on the carriage, normal (perpendicular) to the carriage mounting surface.

For final evaluation of life vs load, including off center, tension, and side loads, refer to the charts and formulas found at www.parkermotion.com.

	d1	d2	d3
HD085	51	42	53.5
HD125	65	70	57.5
HD185	105	115	42.0



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HD085 Series Linear Table 85 mm Wide Profile

Common Characteristics

Performance	Standard	Industrial
Bidirectional Repeatability ⁽¹⁾ – (µm)	±8.0	±50.0
Duty Cycle	100%	100%
Max Acceleration – m/sec ² (in/sec ²)	20 (773)	20 (773)
Rated Normal Load (2) - kgf (lbs)	170 (374)	170 (374)
Rated Axial Loading ⁽³⁾ – kgf (lbs)	90 (198)	90 (198)
Drive Screw Efficiency – %	90	90
Max. Breakaway Torque – Nm (ft-lbs)	0.21 (0.15)	0.21 (0.15)
Running Torque – Nm (ft-lbs)	0.18 (0.13)	0.18 (0.13)
Linear Bearing Coefficient of Friction	0.01	0.01
Carriage Weight – kg (lbs)	0.9 (1.98)	0.9 (1.98)



Travel Dependent Characteristics

	Posit Accur (µ	tional racy ⁽¹⁾ m)	Straigh Flatness (µ	tness & Accuracy m)	Max. \	/elocity (mr	n/sec.)	Input In	iertia (kg-m	ı² x 10⁵)	Total Table Weight
Travel	Standard	Industrial	Standard	Industrial	5 mm	10 mm	20 mm	5 mm	10 mm	20 mm	(kg)
100	25	50	10	20	370	740	1480	1.826	1.925	2.322	3.86
200	25	50	15	30	370	740	1480	2.214	2.313	2.710	4.56
300	30	75	20	40	370	740	1480	2.601	2.701	3.097	5.26
400	35	100	25	50	370	740	1480	2.989	3.088	3.485	5.96
500	40	120	30	60	370	740	1480	3.377	3.476	3.873	6.66
600	45	130	35	70	260	520	1040	3.764	3.864	4.260	7.36
800	55	150	45	90	180	360	720	4.540	4.639	5.036	8.76
1000	65	200	55	110	_	240	480	—	5.414	5.811	10.16
1200	75	250	65	130	—	170	340	—	6.190	6.586	11.56

Motor Characteristics

	M01x M02x SM232AE	M11x M12x SM232AQ	M100 Series* HV232	M100 Parallel* HV232
Max. Voltage	340	340	170	170
Peak Current	8.3	8.3	1.38	2.76
RMS Current	2.0	2.0	1.38	2.76
Resistance	7.50	7.50	3.41	0.85
Inductance	2.90	2.90	12.28	3.07
Recommended Drive	S025	AR-04	E-AC	E-AC

* Series/Parallel denotes wiring of step motor to drive

(1) Accuracy and Repeatability apply to in-line motors only. Contact factory for parallel motor configurations. The accuracy and repeatability shown are for mechanics only and assume no error contribution from the motor. With standard 4000 count encoders an additional error must be added to both the accuracy and repeatability. For 5 mm lead add 1.25 microns, for 10 mm leads add 2.5 microns and for 20 mm leads add 5 microns of error to the accuracy and repeatability value stated above.

(2) Normal load capacities apply to centralized load on the linear bearing to a life of 2540 Km. Refer to life/load charts to determine life of your particular application. Normal load capacity ratings are to be used as a reference of linear bearing load to life rating. This value SHOULD NOT be used as a safe loading value since other application factors (such as mounting) affect the safe load rating.

(3) Axial load capacities assumes an average axial load on a 10 mm lead ball screw and a life of 2540 Km. Refer to life/load charts to determine life of your particular application.



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HD125 Series Linear Table 125 mm Wide Profile

Common Characteristics

Performance	Standard	Industrial
Bidirectional Repeatability (1) - (µm)	±8.0	±50.0
Duty Cycle	100%	100%
Max Acceleration – m/sec ² (in/sec ²)	20 (773)	20 (773)
Rated Normal Load (2) - kgf (lbs)	630 (1390)	630 (1390)
Rated Axial Loading (3) – kgf (lbs)	90 (198)	90 (198)
Drive Screw Efficiency – %	90	90
Max. Breakaway Torque – Nm (ft-lbs) 0 to 1000 mm Travel 1200 to 1500 mm Travel	0.25 (0.18) 0.35 (0.26)	0.25 (0.18) 0.35 (0.26)
Running Torque – Nm (ft-lbs)) 0 to 1000 mm Travel 1200 to 1500 mm Travel	0.21 (0.15) 0.32 (0.24)	0.21 (0.15) 0.32 (0.24)
Linear Bearing Coefficient of Friction	0.01	0.01
Carriage Weight – kg (lbs)	2.2 (4.84)	2.2 (4.84)



Travel Dependent Characteristics

	oponat												
	Posit Accu (µ	tional racy ⁽¹⁾ m)	Straig & Fla Accura	htness tness cy (μm)	Max. Velocity (mm/sec.)				Input Inertia (kg-m² x 10⁵)				Total Table Weight
Travel	Std	Ind	Std	Ind	5 mm	10 mm	20 mm	40 mm	5 mm	10 mm	20 mm	40 mm	(kg)
200	25	50	15	30	370	740	1480	2240	3.061	3.416	4.834	14.386	11.50
300	30	75	20	40	370	740	1480	2240	3.449	3.804	5.222	15.612	12.75
400	35	100	25	50	370	740	1480	2240	3.837	4.191	5.610	16.837	14.00
500	40	120	30	60	315	630	1260	2240	4.224	4.579	5.997	18.062	15.25
600	45	130	35	70	240	480	960	1920	4.612	4.967	6.385	19.287	16.50
800	55	150	45	90	155	310	620	1240	5.387	5.742	7.160	7.936	19.00
1000	65	200	55	110	—	212	424	848	_	6.517	7.936	24.189	21.50
1200	75	200	65	130	_	_	420	840	_	_	21.577	27.251	24.00
1500	90	300	80	150	_	_	280	560	—	_	25.253	30.927	25.75

Motor Characteristics

	M01x M02x SM232AE	M11x M12x SM232AQ	M03x SM233AE	M13x SM233AQ	M04x MPP921B	M14x MPP921B	M100 Series* HV232	M100 Parallel* HV232
Max. Voltage	340	340	340	340	340	340	170	170
Peak Current	8.3	8.3	8.1	8.1	7.0	7.0	1.38	2.76
RMS Current	2.0	2.0	1.9	1.9	1.8	1.8	1.38	2.76
Resistance	7.50	7.50	9.65	9.65	11.0	11.0	3.41	0.85
Inductance	2.90	2.90	4.08	4.08	47.0	47.0	12.28	3.07
Recommended Drive	S025	AR-04	S025	AR-04	S025	AR-04	E-AC	E-AC

* Series/Parallel denotes wiring of step motor to drive

(1) Accuracy and Repeatability apply to in-line motors only. Contact factory for parallel motor configurations. The accuracy and repeatability shown are for mechanics only and assume no error contribution from the motor. With standard 4000 count encoders an additional error must be added to both the accuracy and repeatability. For 5 mm lead add 1.25 microns, for 10 mm leads add 2.5 microns and for 20 mm leads add 5 microns of error to the accuracy and repeatability value stated above.

(2) Normal load capacities apply to centralized load on the linear bearing to a life of 2540 Km. Refer to life/load charts to determine life of your particular application. Normal load capacity ratings are to be used as a reference of linear bearing load to life rating. This value SHOULD NOT be used as a safe loading value since other application factors (such as mounting) affect the safe load rating.

(3) Axial load capacities assumes an average axial load on a 10 mm lead ball screw and a life of 2540 Km. Refer to life/load charts to determine life of your particular application.



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Screw Driven Tables

HD125 Series Performance



Parker Hannifin Corporation Electromechanical Automation Division Irwin, Pennsylvania



HD185 Series Linear Table 185 mm Wide Profile

Common Characteristics

Performance	Standard	Industrial
Bidirectional Repeatability ⁽¹⁾ – (µm)	±8.0	±50.0
Duty Cycle	100%	100%
Max Acceleration – m/sec ² (in/sec ²)	20 (773)	20 (773)
Rated Normal Load (2) - kgf (lbs)	1470 (3241)	1470 (3241)
Rated Axial Loading (3) - kgf (lbs)	90 (198)	90 (198)
Drive Screw Efficiency – %	90	90
Max. Breakaway Torque – Nm (ft-lbs) 0 to 1000 mm Travel 1200 to 1600 mm Travel	0.32 (0.24) 0.38 (0.28)	0.32 (0.24) 0.38 (0.28)
Running Torque – Nm (ft-lbs) 0 to 1000 mm Travel 1200 to 1600 mm Travel	0.21 (0.15) 0.35 (0.26)	0.21 (0.15) 0.35 (0.26)
Linear Bearing Coefficient of Friction	0.01	0.01
Carriage Weight – kg (lbs)	3.6 (7.92)	3.6 (7.92)



Travel Dependent Characteristics

	Posit Accu (μ	tional racy ⁽¹⁾ m)	Straig & Fla Accura	htness tness cy (μm)	Max. Velocity (mm/sec.)			Input Inertia (kg-m² x 10⁵)				Weight (kg)	
Travel	Std	Ind	Std	Ind	5 mm	10 mm	20 mm	40 mm	5 mm	10 mm	20 mm	40 mm	Total
300	30	75	20	40	370	740	1480	2240	3.446	4.174	7.087	23.178	22.9
400	35	100	25	50	370	740	1480	2240	3.833	4.562	7.475	24.403	24.6
500	40	120	30	60	355	710	1420	2240	4.221	4.949	7.862	25.628	26.4
600	45	130	35	70	270	540	1080	2000	4.609	5.337	8.250	26.854	28.2
800	55	150	45	90	165	330	660	1320	5.384	6.112	9.025	29.304	31.7
1000	65	200	55	110	—	230	460	920	—	6.888	9.801	31.754	35.2
1200	75	235	65	130	—	—	440	880	—	—	22.253	34.205	38.7
1400	85	250	75	150	_	_	340	680	_	_	25.003	36.655	42.2
1600	95	300	85	180	_	_	260	520	—	_	27.454	39.106	45.8

Motor Characteristics

	M01x SM232AE	M11x SM232AQ	M03x SM233AE	M13x SM233AQ	M04x MPP921B	M14x MPP921B
Max. Voltage	340	340	340	340	340	340
Peak Current	8.3	8.3	8.1	8.1	7.0	7.0
RMS Current	2.0	2.0	1.9	1.9	1.8	1.8
Resistance	7.50	7.50	9.65	9.65	11.0	11.0
Inductance	2.90	2.90	4.08	4.08	47.0	47.0
Recommended Drive	S025	AR-04	S025	AR-04	S025	AR-04

* Series/Parallel denotes wiring of step motor to drive

(1) Accuracy and Repeatability apply to in-line motors only. Contact factory for parallel motor configurations. The accuracy and repeatability shown are for mechanics only and assume no error contribution from the motor. With standard 4000 count encoders an additional error must be added to both the accuracy and repeatability. For 5 mm lead add 1.25 microns, for 10 mm leads add 2.5 microns and for 20 mm leads add 5 microns of error to the accuracy and repeatability value stated above.

(2) Normal load capacities apply to centralized load on the linear bearing to a life of 2540 Km. Refer to life/load charts to determine life of your particular application. Normal load capacity ratings are to be used as a reference of linear bearing load to life rating. This value SHOULD NOT be used as a safe loading value since other application factors (such as mounting) affect the safe load rating.

(3) Axial load capacities assumes an average axial load on a 10 mm lead ball screw and a life of 2540 Km. Refer to life/load charts to determine life of your particular application.



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HD185 Series Performance



Parker Hannifin Corporation Electromechanical Automation Division Irwin, Pennsylvania



Screw Driven Tables

HD Series Features and Options

HD Series Features and Options Deep Channel Extruded Body

The foundation of the HD Series is an extruded body, designed to provide exceptional beam strength and rigidity with ease of use features,



yet be aesthetically appealing. The extrusion cross section has a high moment of inertia that strengthens and stiffens the unit. This enables users to span unsupported distances or cantilever the axis with minimal or no need for stiffening brackets. As an example, an HD may be toe clamped directly to the structural beams in a machine frame as opposed to having a plate cut to size and machined flat to serve as the positioner's mounting surface. The elimination of the mounting plate reduces overall design time and machine cost.

Precision Machined Tolerances

The extruded base provides the basic shape of the positioner but in its raw form, lacks the precision needed for most applications. Parker's proprietary machining processes are used to cut rail seats and flatten the bottom of the extrusion to specifications better



than jig plate. Some manufacturers will skip machining the bottom mounting surface to save cost but sacrifice precision and risk binding and other application problems. With the HD Series you gain the feature benefits of an extruded base and through Parker's machining capability, gain precision better than jig plate designs can offer.

Maintenance Free Linear Bearings

Supporting the payload in the HD Series is a precision ground linear bearing set that offers precise, smooth motion. The two-rail, four-bearing truck design provides high load capacity



and is structured to handle cantilevered load unlike single rail designs. The linear bearings are self lubricating and therefore will not require re-lubrication for the life of the table.

IP30 Rated Environmental Protection

Often automation applications can be in dirty environments. For this reason the HD Series includes environmental protection beyond just a simple plate. The HD Series uses a combination of hard cover



and belt seal to provide a significant level of environmental protection for the tables internal components. This is ideal for larger objects like nuts, bolts, fingers, and larger debris. The sealing system will provide a measure of protection for dust but is not impervious. For these applications, pressurizing the HD positioner can be very effective.

High-Performance Brushless Servo Motors

Included with the HD Series are high-performance brushless servo motors. These motors are performance-matched with the mechanical drive train and are inertia matched to maintain good load-torotor inertia ratios. Together, these characteristics offer excellent dynamic performance and stability.

As standard, the motors are offered in an in-line configuration and for space constrained applications may be mounted in



a parallel configuration. The parallel design utilizes a belt and pulley to transfer torque and includes additional pulley support bearings to protect the motor shaft and screw shank from over tension and fatigue failures.

Finally, because the motors are included, system performance can be pre-calculated and presented in graphical form. For most applications, motor sizing is as simple as looking at a graph.

Zero Backlash Shaft Coupling

Included with the HD Series to transfer motor torque to the ballscrew is a high-performance shaft coupling. The coupling design uses stainless steel disks to transfer torque yet provide a measure of flexibility for slight shaft misalignments. The design is very



lightweight and adds minimal inertia. The combination of high stiffness and low inertia maintains high natural frequencies, which is important for high performance applications.



Ground Ballscrew Drive Train (Standard Grade)

At the heart of the HD Series drive train is a preloaded, precision ground ballscrew. This high-

performance component offers high-speed, 100% duty cycle operation with long life, plus the better precision and surface finish of a ground screw compared with a rolled screw enables more accurate and quieter operation.

As standard, the HD Series offers 5 mm, 10 mm, and 20 mm lead options with a 40 mm lead available as a special. For most travels, the screws are 15 mm in diameter with the longer 20 mm lead and all 40 mm lead screws increasing to 20 mm in diameter. Like the linear bearings, the screws are self lubricating and will not require relubrication for the table's life.

Mounting Features

The HD Series is designed for easy mounting. There are two basic methods of mounting an HD module into a machine. First, toe clamps (Part Number 101-1577-01) provide an easy method of bolting the HD



down to a surface. For maximum flexibility, the toe clamps can be placed anywhere along the body extrusion and enable aligning mounting points with structural members of the machine frame. The second method utilizes taped holes in the base where the mounting hardware comes through the mounting surface into the HD module. The mounting pattern consists 4 tapped holes and 2 dowel holes and repeats at varying intervals depending on overall travel. See the HD Series drawings for hole location details.

Dowel Holes

As mentioned above the base of the HD Series includes dowel holes. These enable repeatable mounting within a machine. Further, the carriage of the HD also includes a set of dowel holes and is very useful for



maintaining alignment if the payload is removed or replaced.

End Mounting

In many applications, the positioner may be mounted with the carriage stationary such that the body moves. For these applications, the end of the HD includes tapped and dowel holes for mounting of the



payload to the HD body. In many cases this avoids the cost and time of designing an awkward bracket to wrap from the bottom of the positioner around to the end.

Home and Limit Sensors

As a standard option, home and end of travel limit sensors may be added to an HD positioner. These are industrially hardened, hall effect sensors that are triggered by a magnet mounted on the



moving carriage. The sensors nest inside the extrusion T-slot and so do not add additional width or create obstructions. Further they are protected inside the T-slot which minimizes the opportunity for physical damage.

For maximum flexibility, sensors are adjustable over the entire length and magnets are included on both sides of the table so sensors can be attached on either side. The sensors are offered in 4 variants with NPN (sinking) or PNP (sourcing) outputs and in normally open (NO) or normally closed (NC) logic. The sensor cables extend 300 mm and terminate into a M3 connector. If purchased as part of the positioner (LH option) each sensor will include a 5 m extension cable (P/N: 003-2918-01).

Input Power	10-30VDC
Voltage Drop	<= 2.5V
Cont. Current	100mA
Electrical Protection	Short Circuit, Reverse Polarity, Power Up Pulse Suppression
Enclosure	IP67 Rated Polyamide Housing with PVC Cable Jacket
Wire Colors	Brown – Power (+) Black – Signal Blue – Ground (-)
Repeatability	0.1 mm max

Spare Part Number	Output Type	Logic	Cable Type
006-1994-01	N.O.	NPN (Sinking)	300 mm to M3 connector
006-1994-02	N.O.	PNP (Sourcing)	300 mm to M3 connector
006-1994-03	N.C.	NPN (Sinking)	300 mm to M3 connector
006-1994-04	N.C.	PNP (Sourcing)	300 mm to M3 connector
003-2918-01	-	-	5.0 m Extension Cable

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		Dimensions							
Μ	lotor Model	E	F	G	Н				
M000	No Motor	0	-	-	-				
M010	SM232AE-TPSN	134.5	57.2	69.8	163				
M020	SM232AE-TPSB	168.0	57.2	69.8	198				
M100	HV232-D2-10	79.2	57.2	69.8	-				
M110	SM232AQ-TPSN	134.5	57.2	69.8	163				
M020	SM232AQ-TPSB	168.0	57.2	69.8	198				

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HD085T07

HD085T08

HD085T09

HD085T10

HD085T11

HD085T12

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Dimensions (mm)

New HD085 Parallel Motor Options



NOTE : SHOWN AS SIDE"A" ("B" IS MIRROR IMAGE . ROTATED 180' ABOUT TABLE SCREW CENTERLINE)

Motor Adapter Assembly		Dimer	nsions		
Part Number	М	Р	S	т	Example Motors
A011-HD085 or B011-HD085	M4 x 0.7	30.0	8.0	6.5	Yaskawa SGMAH-01, SGM-01 Kollmorgen AKM1X-AN Allen Bradley Y-1002, Y-1003
A232-HD085 or B232-HD085	M5 x 0.8	38.1	9.53	8.0	Parker SM23X , BE23X



HD085 Motor Flange/Coupling Assembly Options

Dimensions (mm)

Screw Driven Tables



Motor Adapter Assembly Part Number	А	В	С	Pilot Dia.	Pilot Depth	Bolt Circle Dia.	Bolt Hole Size	Shaft Dia.	Shaft Length	Example Motors
F011-HD085	12.0	8.0	_	30.0	3.0	46.0	4.5	8.0	25.0	Yaskawa SGMAH-01, SGM-01 Kollmorgen AKM1X-AN Allen Bradley Y-1002, Y-1003
F012-HD085	12.0	8.0	—	30.0	3.0	46.0	4.5	6.0	25.0	Yaskawa SGMAH-A1XXF4, SGMAH-A3XXF4X, SGM-03,SGM-A5
F021-HD085	15.0	10.5	—	50.0	3.0	60.0	4.5	8.0	24.0	Allen Bradley LD-2003
F031-HD085	12.0	8.0	—	40.0	3.0	63.0	5.5	9.0	20.0	Parker SMB60/HDY55 Allen Bradley MPL1510/1520/1530
F041-HD085	12.0	8.0	_	40.0	3.0	63.0	4.5	9.0	20.0	Kollmorgen AKM2X-AN Indramat MKD025
F051-HD085	15.0	10.5	_	50.0	3.0	70.0	5.5	8.0	25.0	Yaskawa SGMP-01, SGMPH-01-XXXX
F061-HD085	20.0*	18.0	1.3	50.0	3.0	70.0	5.5	14.0	30.0	Yaskawa SGMAH-02XXF4X, SGMAH-04XXF4X, SGM-02, SGM-04 Allen Bradley Y-2006, Y-2012
F071-HD085	10.0*	10.5	2.0	60.0	3.0	75.0	5.5	11.0	23.0	Parker J070/NO70/HDY70 Allen Bradley MPL210/220/230 Kollmorgen B102/BH-122
F072-HD085	10.0*	10.5	2.0	60.0	3.0	75.0	5.5	14.0	30.0	Kollmorgen B104/B106, M-103/105/107, AKM3X- AN, BH-124/126
N231-HD085	12.0	8.0	_	38.1	3.0	66.675	5.5	6.35	20.0	Parker ES23X Allen Bradley N-2302, N-2304 Animatics SM2310D, SM2320D
N232-HD085	12.0	8.0	—	38.1	3.0	66.675	5.5	9.525	20.0-31.0	Parker SM23X, BE23X
N233-HD085	10.0*	8.0	_	38.1	3.0	66.675	4.5	12.7	20.0	Yaskawa SGMAH-0XXN2XX, SGMAH-04XXN2XX NEMA 23 Face
N341-HD085	20.0*	18.0	12.6	73.03	3.0	98.425	5.5	9.525	37.0	Parker HV/LV34

* Note: Coupling must be mounted to motor first. Distance of coupling face to motor face.



2D & 3D CAD Download from parkermotion.com

HD125 Series Dimensions

Screw Driven

Tables

Dimensions (mm)





Dimensions (mm)

New HD125 Parallel Motor Options



NOTE : SHOWN AS SIDE"B" ("A" IS MIRROR IMAGE . ROTATED 180' ABOUT TABLE SCREW CENTERLINE)

Motor Adapter			Dimensions			
Part Number	М	Ν	Р	S	т	Example Motors
A021-HD125 or B021-HD125	M4 x 0.7	60.0	50.0	8.0	7.5	Allen Bradley LD-2003
A031-HD125 or B031-HD125	M5 x 0.8	63.0	40.0	9.0	7.5	Parker SMB60/HDY55 Allen Bradley MPL1510/1520/1530
A041-HD125 or B041-HD125	M4 x 0.7	63.0	40.0	9.0	7.5	Kollmorgen AKM2X-AN Indramat MKD025
A061-HD125 or B061-HD125	M5 x 0.8	70.0	50.0	8.0	10.0	Yaskawa SGMP-01, SGMPH-01-XXXX
A062-HD125 r B062-HD125	M5 x 0.8	70.0	50.0	14.0	10.0	Yaskawa SGMAH-02XXF4X, SGMAH-04XXF4X, SGM-02, SGM-04 Allen Bradley Y-2006, Y-2012
A071-HD125 or B071-HD125	M5 x 0.8	75.0	60.0	11.0	-	Parker J070/NO70/HDY70 Allen Bradley MPL210/220/230 Kollmorgen B102/BH-122
A081-HD125 or B081-HD125	M6 x 1.0	90.0	70.0	14.0	10.0	Yaskawa SGMPH-02XXX, SGMPH-04XXX, SGMP-02, SGMP-04
A101-HD125 or B101-HD125	M6 x 1.0	95.0	50.0	14.0	10.0	Indramat MKD041
A111-HD125 or B111-HD125	M6 x 1.0	100.0	80.0	14.0	10.0	Parker JO92X/NO92X
A121-HD125 or B121-HD125	M6 x 1.0	100.0	80.0	16.0	8.0*	Kollmorgen AKM4X-AN Mounting Code
A231-HD125 or B231-HD125	M5 x 0.8	66.68	38.1	6.35	10.0	Parker ES23X Allen Bradley N-2302, N-2304 Animatics SM2310D, SM2320D
A232-HD125 or B232-HD125	M5 x 0.8	66.68	38.1	9.53	10.0	Parker SM23X , BE23X
A233-HD125 or B233-HD125	M4 x 0.7	66.68	38.1	12.7	10.0	Yaskawa SGMAH-0XXN2XX, SGMAH-04XXN2XX NEMA 23 Face
A341-HD125 or B341-HD125	M5 x 0.8	98.43	73.03	6.35	15.0	Parker HV/LV34
A342-HD125 or B342-HD125	M5 x 0.8	98.43	73.03	12.7	15.0	Parker BE34

*Not outer support bearing assembly block (no 35 mm dimension pulley on motor shaft.



HD125 Motor Flange/Coupling Assembly Options

Dimensions (mm)

P



Dimensions										
					Requir	ed Moto	or Spe	cificati	ons	
Assembly				Pilot	Pilot	Circle	Hole	Shaft	Shaft	
Part Number	Α	В	С	Dia.	Depth	Dia.	Size	Dia.	Length	Example Motors
F021-HD125	15.0	10.5	—	50.0	3.0	60.0	4.5	8.0	24.0	Allen Bradley LD-2003
F031-HD125	12.0	8.0	_	40.0	3.0	63.0	5.5	9.0	20.0	Parker SMB60/HDY55 Allen Bradley MPL1510/1520/1530
F041-HD125	12.0	7.5	_	40.0	3.0	63.0	4.5	9.0	20.0	Kollmorgen AKM2X-AN Indramat MKD025
F061-HD125	15.0	12.0	—	50.0	3.0	70.0	5.5	8.0	25.0	Yaskawa SGMP-01, SGMPH-01-XXXX
F062-HD125	15.0	12.0	_	50.0	3.0	70.0	5.5	14.0	30.0	Yaskawa SGMAH-02XXF4X, SGMAH-04XXF4X, SGM-02, SGM-04 Allen Bradley Y-2006, Y-2012
F071-HD125	12.0	10.5	_	60.0	3.0	75.0	5.5	11.0	23.0	Parker J070/NO70/HDY70 Allen Bradley MPL210/220/230 Kollmorgen B102/BH-122
F072-HD125	12.0	10.5	—	60.0	3.0	75.0	5.5	14.0	30.0	Kollmorgen B104/B106, M-103/105/107, AKM3X- AN, BH-124/126
F081-HD125	15.0*	22.0	4.5	70.0	3.5	90.0	6.6	14.0	30.0	Yaskawa SGMPH-02XXX, SGMPH-04XXX, SGMP-02, SGMP-04
F082-HD125	15.0*	22.0	4.5	70.0	3.5	90.0	6.6	16.0	30.0-40.0	Yaskawa SGMAH-08 SGM-08 Allen Bradley Y-3023
F091-HD125	15.0*	22.0	4.5	70.0	3.5	90.0	5.5	14.0	30.0	Allen Bradley LD-3009
F101-HD125	15.0*	22.0	7.0	50.0	3.5	95.0	6.6	14.0	30.0	Indramat MKD041
F111-HD125	15.0*	20.0	7.0	80.0	3.5	100.0	6.6	14.0	30.0	Parker JO92X/NO92X
F121-HD125	20.0*	28.0	7.0	80.0	3.5	100.0	6.6	16.0	30.0-40.0	Parker MPP92X Allen Bradley MPL310/320/330, LD-4012
F122-HD125	20.0*	28.0	7.0	80.0	3.5	100.0	6.6	19.0	30.0-40.0	Kollmorgen AKM4X-AN Mounting Code
N231-HD125	12.0	8.0	_	38.1	3.0	66.675	5.5	6.35	20.0	Parker ES23X Allen Bradley N-2302, N-2304 Animatics SM2310D, SM2320D
N232-HD125	12.0	8.0	-	38.1	3.0	66.675	5.5	9.525	20.0-31.0	Parker SM23X , BE23X
N233-HD125	10.0*	8.0	—	38.1	3.0	66.675	4.5	12.7	20.0	Yaskawa SGMAH-0XXN2XX, SGMAH-04XXN2XX NEMA 23 Face
N341-HD125	15.0	20.0	7.0	73.03	3.0	98.425	5.5	9.525	37.0	Parker HV/LV34
N342-HD125	15.0*	20.0	7.0	73.03	3.0	98.425	5.5	12.7	30.0	Parker BE34
* Note: Coupling m	ust be m	ounted	to mot	or first. D	Distance	of couplin	na face t	to motor	face	

Jμ ıy



HD185 Series Dimensions

Download from files

HD185 Series Dimensions

Screw Driven

Tables

Dimensions (mm)



www.parkermotion.com

Parker Hannifin Corporation Electromechanical Automation Division Irwin, Pennsylvania



Dimensions (mm)

New HD185 Parallel Motor Options



NOTE : SHOWN AS SIDE"B" ("A" IS MIRROR IMAGE . ROTATED 180' ABOUT TABLE SCREW CENTERLINE)

Motor Adapter			Dimensions			
Part Number	М	Ν	Р	S	т	Example Motors
A021-HD185 or B021-HD185	M4 x 0.7	60.0	50.0	8.0	7.5	Allen Bradley LD-2003
A031-HD185 or B031-HD185	M5 x 0.8	63.0	40.0	9.0	7.5	Parker SMB60/HDY55 Allen Bradley MPL1510/1520/1530
A041-HD185 or B041-HD185	M4 x 0.7	63.0	40.0	9.0	7.5	Kollmorgen AKM2X-AN Indramat MKD025
A061-HD185 or B061-HD185	M5 x 0.8	70.0	50.0	8.0	10.0	Yaskawa SGMP-01, SGMPH-01-XXXX
A062-HD185 or B062-HD185	M5 x 0.8	70.0	50.0	14.0	10.0	Yaskawa SGMAH-02XXF4X, SGMAH-04XXF4X, SGM-02, SGM-04 Allen Bradley Y-2006, Y-2012
A071-HD185 or B071-HD185	M5 x 0.8	75.0	60.0	11.0	-	Parker J070/NO70/HDY70 Allen Bradley MPL210/220/230 Kollmorgen B102/BH-122
A081-HD185 or B081-HD185	M6 x 1.0	90.0	70.0	14.0	10.0	Yaskawa SGMPH-02XXX, SGMPH-04XXX, SGMP-02, SGMP-04
A082-HD185 or B082-HD185	M5 x 0.8	90.0	70.0	14.0	10.0	Yaskawa SGMAH-08 SGM-08 Allen Bradley Y-3023
A101-HD185 or B101-HD185	M6 x 1.0	95.0	50.0	14.0	10.0	Indramat MKD041
A111-HD185 or B111-HD185	M6 x 1.0	100.0	80.0	14.0	10.0	Parker JO92X/NO92X
A121-HD185 or B121-HD185	M6 x 1.0	100.0	80.0	16.0	8.0*	Parker MPP92X Allen Bradley MPL310/320/330, LD-4012
A231-HD185 or B231-HD185	M5 x 0.8	66.68	38.1	6.35	10.0	Parker ES23X Allen Bradley N-2302, N-2304 Animatics SM2310D, SM2320D
A232-HD185 or B232-HD185	M5 x 0.8	66.68	38.1	9.53	10.0	Parker SM23X , BE23X
A233-HD185 or B233-HD185	M4 x 0.7	66.68	38.1	12.7	10.0	Yaskawa SGMAH-0XXN2XX, SGMAH-04XXN2XX NEMA 23 Face
A341-HD185 or B341-HD185	M5 x 0.8	98.43	73.03	6.35	15.0	Parker HV/LV34
A342-HD185 or B342-HD185	M5 x 0.8	98.43	73.03	12.7	15.0	Parker BE34

*Not outer support bearing assembly block (no 35 mm dimension pulley on motor shaft.



HD185 Motor Flange/Coupling Assembly Options

Dimensions (mm)



Dimensions											
	Required Motor Specifications										
Motor Adapter			Dilot	Pilot	Bolt	Bolt	Shaft	Shaft			
Part Number	Α	В	Dia.	Depth	Dia.	Size	Dia.	Length	Example Motors		
F021-HD185	15.0	—	50.0	3.0	60.0	4.5	8.0	24.0	Allen Bradley LD-2003		
F031-HD185	10.0	—	40.0	3.0	63.0	5.5	9.0	20.0	Parker SMB60/HDY55 Allen Bradley MPL1510/1520/1530		
F041-HD185	10.0	—	40.0	3.0	63.0	4.5	9.0	20.0	Kollmorgen AKM2X-AN Indramat MKD025		
F061-HD185	18.0	_	50.0	3.0	70.0	5.5	8.0	25.0	Yaskawa SGMP-01, SGMPH-01-XXXX		
F062-HD185	18.0	_	50.0	3.0	70.0	5.5	14.0	30.0	Yaskawa SGMAH-02XXF4X, SGMAH-04XXF4X, SGM-02, SGM-04 Allen Bradley Y-2006, Y-2012		
F071-HD185	10.0	_	60.0	3.0	75.0	5.5	11.0	23.0	Parker J070/NO70/HDY70 Allen Bradley MPL210/220/230 Kollmorgen B102/BH-122		
F072-HD185	10.0	—	60.0	3.0	75.0	5.5	14.0	30.0	Kollmorgen B104/B106, M-103/105/107, AKM3X-AN, BH-124/126		
F081-HD185	15.0	0.5	70.0	3.5	90.0	6.6	14.0	30.0	Yaskawa SGMPH-02XXX, SGMPH-04XXX, SGMP-02, SGMP-04		
F082-HD185	15.0	0.5	70.0	3.5	90.0	6.6	16.0	30.0-40.0	Yaskawa SGMAH-08 SGM-08 Allen Bradley Y-3023		
F083-HD185	20.0	0.5	70.0	3.5	90.0	5.5	14.0	30.0	Allen Bradley LD-3009		
F101-HD185	12.0	0.5	50.0	3.5	95.0	6.6	14.0	30.0	Indramat MKD041		
F111-HD185	15.0	0.5	80.0	3.5	100.0	6.6	14.0	30.0	Parker JO92X/NO92X		
F121-HD185	20.0	8.0	80.0	3.5	100.0	6.6	16.0	30.0-40.0	Parker MPP92X Allen Bradley MPL310/320/330, LD-4012		
F122-HD185	20.0	8.0	80.0	3.5	100.0	6.6	19.0	30.0-40.0	Kollmorgen AKM4X-AN Mounting Code		
N231-HD185	12.0	_	38.1	3.0	66.675	5.5	6.35	20.0	Parker ES23X Allen Bradley N-2302, N-2304 Animatics SM2310D, SM2320D		
N232-HD185	12.0	—	38.1	3.0	66.675	5.5	9.525	20.0-31.0	Parker SM23X , BE23X		
N233-HD185	12.0	—	38.1	3.0	66.675	4.5	12.7	20.0	Yaskawa SGMAH-0XXN2XX, SGMAH-04XXN2XX NEMA 23 Face		
N341-HD185	20.0	0.5	73.03	3.0	98.425	5.5	9.525	37.0	Parker HV/LV34		
N342-HD185	15.0	0.5	73.03	3.0	98.425	5.5	12.7	30.0	Parker BE34		

Parker Hannifin Corporation Electromechanical Automation Division Irwin, Pennsylvania





HD Series XY Adapter Dimensions

Dimensions (mm)



Hole	Description – mm in]	Qty
А	Ø 6.6 [0.256] Thru Hole with a counterbored Ø 11.0 [0.433] X 7.0 [0.276] deep hole	8
В	Ø 5.5 [0.217] Thru Hole with a counterbored Ø 10.0 [0.394] X 6.0 [0.236] Far Side	4
С	Drill & Tap Thru M6 X 1	8
D	Ø 6.006 +0.006/-0.000 [0.2365 +0.0002/-0.0000]	4
F	Ø 5.006 +0.006/-0.000 [0.1971 +0.0002/-0.0000]	2



Hole	Description – mm in]	Qty					
А	Ø 9.0 [0.3541] Thru Hole with a counterbored Ø 15.0 [0.591] X 9.0 [0.354] deep hole	4					
В	B Ø 5.5 [0.217] Thru Hole with a counterbored Ø 10.0 [0.394] X 6.0 [0.236] Far Side						
С	Drill & Tap Thru M6 X 1	8					
D	Ø 8.006 +0.006/-0.000 [0.3150 +0.0002/-0.0000]	4					
F	Ø 5.006 +0.006/-0.000 [0.1971 +0.0002/-0.0000]	2					



P/N 101-2135-01

Hole	Description	Qty
Α	Ø 6.6 [0.256] Thru Hole with a counterbored Ø 11.0 [0.433] X 7.0 [0.276] deep hole	4
В	Ø 6.6 [0.256] Thru Hole with a counterbored Ø 11.0 [0.433] X 7.0 [0.276] deep hole - Far Side	4
С	Drill & Tap Thru M6 X 1	8
D	Ø 6.006 +0.006/-0.000 [0.2365 +0.0002/-0.0000]	4
F	Ø 8.006 +0.006/-0.000 [0.3150 +0.0002/-0.0000]	2
G	Ø 9.0 [0.3541] Thru Hole with a counterbored Ø 15.0 [0.591] X 9.0 [0.354] deep hole	4

P/N 101-2136-01 HD185 TO HD185 & HD185 RISER PLATE



Hole	Description	Qty
Α	Ø 9.0 [0.3541] Thru Hole with a counterbored Ø 15.0 [0.591] X 9.0 [0.354] deep hole	8
в	Ø 9.0 [0.3541] Thru Hole with a counterbored Ø 15.0 [0.591] X 9.0 [0.354] deep hole - Far Side	4
С	Drill & Tap Thru M6 X 1	8
D	Ø 8.006 +0.006/-0.000 [0.3150 +0.0002/-0.0000]	4

HD015 Series Dimensions

Dimensions (mm)









VL Option- Long Carriage

¢



NL Option- Short Carriage





Fill in an order code from each of the numbered fields to create a complete model order code.

				1	2	3	4	5	6	0	8		
			Order Exampl	e: HD085	T08	S	D02	M020	LH2	B1	R1		
1	Series	05 mm					М0	10 S	ervo with	n stan	dard encoder (SM232AE-TPSN),		
	проор						M0	11 S	ervo with arallel "Δ	n stan	dard encoder (SM232AE-TPSN),		
2	Travel * T01	100 mm					M0	12 S P	ervo with arallel "B	n stan "	dard encoder (SM232AE-TPSN),		
	T02 T03	200 mm 300 mm					M0	20 S In	ervo with I-line	n stan	dard encoder (SM232AE-TPSB),		
	T04	400 mm					M0	21 S P	ervo with arallel "A	n stan "	dard encoder (SM232AE-TPSB),		
	T06	600 mm					M0	22 S	ervo with arallel "B	n stan "	dard encoder (SM232AE-TPSB),		
	T108 T10	1000 mm					M1	10 S In	ervo with I-line	n sma	rt encoder (SM232AQ-TPSN),		
	T12	1200 mm					M1	11 S	ervo with arallel "A	n sma ."	rt encoder (SM232AQ-TPSN),		
3	Grade N	Industrial Grad	le				M1	12 S	ervo with arallel "B	n sma "	rt encoder (SM232AQ-TPSN),		
	S	Standard Grad	de				M	20 S (S	ervo with M232A0	n sma Q-TPS	rt encoder & brake SB), In-line		
4	Drive						IVI I	21 S (S	ervo witr SM232A0	arma Q-TPS	rt encoder & brake SB), Parallel "A"		
	D02* D03	5 mm lead 10 mm lead					IVI I	22 S (S	ervo witr SM232A0	a sma Q-TPS	Rt encoder & brake SB), Parallel "B"		
	D04 *Maximun	20 mm lead	5 mm load) – 800 mm	(TO8)			N2	00 S 31 P	tepper (F arker ES	4v232 23X	2-02-10), In-Ilne only		
~				(100).				Allen Bradley N-2302, N-2304 Animatics SM2310D, SM2320D					
(5)	Motor C	Options*					N23	32 P	arker SN	123X	, BE23X		
	F011	Yaskawa SGN Kollmorgen Al	1AH-01, SGM-01 KM1X-AN				N23	33 Ya Si	Yaskawa SGMAH-0XXN2XX, SGMAH-04XXN2XX NEMA 23 Face				
	F012	Allen Bradley Yaskawa SGM	Y-1002, Y-1003 1AH-A1XXF4, SGM	AH-A3XXF4X,			N34	41 P ta	arker HV able)	//LV34	Ixx (motor sits above and below		
	F021	Allen Bradley I	-A5 _D-2003				*See mot	*See Addendum page 100A for additional new "A" or "B motor codes.					
	F031	Parker SMB60)/HDY55										
	F0.44	Allen Bradley I	MPL1510/1520/15	30		6) Ho	me/Lin	nit Swit	ch*			
	F041	Kollmorgen Ar	NM2X-AN				LH.	1 N	o sensoi	rs			
	F051	Yaskawa SGM	1P-01. SGMPH-01-	XXXX			LH	2 N	PN stan	dard (NC limits, NO home)		
	F061	Yaskawa SGM	1AH-02XXF4X, SGN	/IAH-04XXF4X,				3 Р 1 Р	NP stand NP stand	dard (dard (NG limits, NO nome) NG limits, NO home)		
		SGM-02, SGN Allen Bradlev	Л-04 Y-2006. Y-2012				*Inc	udes 5 r	FINE standard (NO IIMITS, NO NOME) s 5 meter extension cables				
	F071	Parker J070/N	1070/HDY70			_							
		Allen Bradley I	MPL210/220/230 102/BH-122			0) Bra	ake*	a bralia				
	F072	Kollmorgen B AKM3X-AN, E	104/B106, M-103/1 8H-124/126	05/107,			в1 *See	N e motor d	o brake options				
						8) En	vironm	ental P	rotec	tion		

R1

IP30, Maintenance free

Fill in an order code from each of the numbered fields to create a complete model order code.

					1	2	3	4	5	6	0	8	
			Order Exa	mple:	HD125	T04	S	D02	M030	LH2	B1	R1	
1	Series HD125	125 mm						F12 F12	21 Pa Al 22 Ke	arker MF Ien Brac ollmorge	⊃P92x dley M en AKN	PL310/320/330, LD-4012 /4X-AN Mounting Code	
2	Travel*	200 mm						M0	10 Se In	ervo witł -line	n stan	lard encoder (SM232AE-T	PSN),
	T02 T03	300 mm						M0	11 Se Pa	ervo witł arallel "A	n stano N	dard encoder (SM232AE-T	PSN),
	Т04 Т05	400 mm 500 mm						M0	12 Se Pa	ervo witł arallel "E	n stano 3"	lard encoder (SM232AE-T	PSN),
	T06 T08	600 mm 800 mm						M0	30 Se In	ervo witł -line	n stan	lard encoder (SM233AE-T	PSN),
	T10 T12	1000 mm 1200 mm						M0	31 Se Pa	ervo with arallel "A	n stano N	lard encoder (SM233AE-T	PSN),
	T14	1400 mm						M0	32 Se Pa	ervo with arallel "E	n stano 3"	dard encoder (SM233AE-T	PSN),
	*Maximun	travel for D02 (5 mm lead) = 80	0 mm (T08	3). 10)			м0 М1	40 Se 10 Se	ervo with ervo with	n stane n smai	ard encoder (CMP0921B t encoder (SM232AQ-TPS	1E) SN),
0		traverior D03 (1	io miniead) = 10	00 1111 (1	10)			M1	In 11 Se	-line ervo witł	n smai	t encoder (SM232AQ-TPS	SN),
3	N	Industrial Gra	de					M1	12 Se	arallel A ervo with arallel "F	n smai n smai	t encoder (SM232AQ-TPS	SN),
	S	Standard Gra	ide					M1	30 Se	ervo with	n smai	t encoder (SM233AQ-TPS	SN),
4	Drive D02*	5 mm lead						M1	31 Se Pa	ervo with arallel "A	n smai N"	t encoder (SM233AQ-TPS	SN),
	D03 D04	10 mm lead 20 mm lead						M1	32 Se Pa	ervo witł arallel "E	n smai 3"	t encoder (SM233AQ-TPS	SN),
	D07**	40 mm lead	and M100 motor	re				M1 M1	40 Se	ervo with	n smai HV232	t encoder (CMP0921B3E) -02-10)	
_	**D07 opt	ion will lose 50 n	nm of travel belov	w 1100 mi	m stroke uni	its.		N23	31 Pa Al	arker ES Ien Brac	23X dley N	2302, N-2304	
5	Motor C	Options*						N2	אם כב	nimatics	SM23	B10D, SM2320D	
	F021 F031	Parker SMB6	0/HDY55	0/1530				N23	33 Ya	askawa SMAH-(, SGMA SGMA	H-0XXN2XX, 2XX NEMA 23 Face	
	F041	Kollmorgen A	KM2X-AN	0/1000				N34 N34	41 Pa 42 Pa	arker H\ arker BF	//LV34 =34		
	F061	Yaskawa SGN SGM-02, SGI	MAH-02XXF4X, M-04	SGMAH	-04XXF4X	,		*See	e Addenc	lum page	e 102A	for additional new "A" or "B" p	oarallel
	F062	Allen Bradley Yaskawa SGN	Y-2006, Y-201 MAH-02XXF4X,	2 SGMAH	-04XXF4X	,	6) Ho	me/Lin	nit Swil	tch*		
		SGM-02, SGI	M-04	0			Ŭ	LH	1 N	o senso	rs		
	F071	Parker J070/I	NO70/HDY70	2				LH: LH:	2 N 3 PI	PN stan	dard (dard (l	NC limits, NO home)	
	F070	Kollmorgen B	102/BH-122	230	107			LH	4 Pi	NP stan	dard (I	NO limits, NO home)	
	FU/2	AKM3X-AN, E	3H-124/126	103/105/	107,			Inc	ludes 5 n	neter exte	ension	Cadles	
	FUOI	SGMPH-04X	XX, SGMP-02,	SGMP-0	4		0) Bra	ake*	o brako			
	F082	Yaskawa SGN Allen Bradley	VAH-08 SGM-(Y-3023	80				B2	Bi	rake			
	F091	Allen Bradley	LD-3009										
	F101	Indramat MKI	D041				8) En	vironm	ental P	rotec	tion	
	F111	Parker JO92X	<th></th> <th></th> <th></th> <th></th> <th>R1</th> <th>IP</th> <th>30, Mai</th> <th>ntenar</th> <th>ice free</th> <th></th>					R1	IP	30, Mai	ntenar	ice free	



Fill in an order code from each of the numbered fields to create a complete model order code.

			0	2	3	4	5	6	0	8	
		Order Example:	HD185	T05	S	D02	M030	LH2	B1	R1	
1	Series HD185	185 mm				F12	21 Pa All	rker Mi en Brad	PP92) dley M	X 1PL310/320/33	30, LD-4012
2	Travel * T03	300 mm				M0 M0	10 Se 11 Se	rvo with rvo with	n stan h star	dard encoder (S ndard encoder (S	SM232AE-TPSN), In-lin (SM232AE-TPSN),
	T04 T05	400 mm 500 mm				М0	Pa 12 Se	erallel "A ervo witl	A" h star ?"	ndard encoder	(SM232AE-TPSN),
	T06 T08	600 mm 800 mm				MO	30 Se	rvo with	n stan	dard encoder (S	SM233AE-TPSN), In-lin
	T10 T12	1000 mm 1200 mm				MO	31 36 Pa 32 Se	arallel "A ervo wit	h star ∖"	idard encoder	(SM233AE-TESN),
	T14	1400 mm 1600 mm				мо	40 Se	rallel "E rvo wit	3" h star	ndard encoder	(CMP0921B1E), In-lin
	T18	1800 mm				M0	41 Se Pa	ervo witl rallel "A	h star \"	ndard encoder	(CMP0921B1E),
	120	2000 11111				M0	42 Se Pa	ervo witl arallel "E	h star 3"	ndard encoder	(CMP0921B1E),
3	N S	Industrial Grade Standard Grade				М1 М1	10 Se 11 Se Pa	ervo wit ervo witl erallel "A	h sma h sma \"	art encoder (SN art encoder (SN	/1232AQ-TPSN), In-Iine 1232AQ-TPSN),
4	Drive					M1	12 Se Pa	ervo witl arallel "E	h sma 3"	art encoder (SN	1232AQ-TPSN),
Ŭ	D02**	5 mm lead				M1 M1	30 Se 31 Se	ervo wit ervo wit	h sma h sma	art encoder (SN art encoder (SN	1/233AQ-TPSN), In-line 1/233AQ-TPSN),
	D04	20 mm lead 40 mm lead				M1	Pa 32 Se	rallel "A rvo witl	A" h sma a"	art encoder (SN	1233AQ-TPSN),
	*Maximun Maximun	n travel for D02 (5 mm lead) = 800 mm (T08 n travel for D03 (10 mm lead) = 1000 mm (1	8). Γ10)			M1	40 Se	ervo (CN	» ЛР092 ЛР000	21B3E), In-line	si "A"
-	**D02 only	y with M01 and M11 motors.				M1	41 Se 42 Se	rvo (CN rvo (CN	/IP092	21B3E), Paralle	۱ "B"
(5)	Motor (F021	Options* Allen Bradley LD-2003				INZ:	All Ar	en Brad	dley N SM2	I-2302, N-2304 310D,SM2320	4)D
	F031	Parker SMB60/HDY55 Allen Bradley MPL1510/1520/1530 Kollmorgen AKM2X-AN				N23 N23	32 Pa 33 Ya	arker SN skawa	Л23X SGM/	, BE23X AH-0XXN2XX,	
	F061	Indramat MKD025 Yaskawa SGMAH-02XXF4X, SGMAH	1-04XXF4X,			N3	SC 41 Pa	GMAH-(arker H\)4XXI //LV34	N2XX NEMA 23 4	3 Face
		SGM-02, SGM-04 Allen Bradley Y-2006, Y-2012				N34 *Se	42 Pa	urker BE um page	E34 e 104A	for additional ne	ew "A" or "B" parallel
	F062	Yaskawa SGMAH-02XXF4X, SGMAF SGM-02, SGM-04 Allen Bradley X-2006, X-2012	1-04XXF4X,		G		me/l im	ut Swit	tch*		
	F071	Parker J070/NO70/HDY70 Allen Bradley MPL210/220/230			e	LH	1 No 2 NF	o senso PN stan	rs Idard	(NC limits, NO	home)
	F072	Kollmorgen B102/BH-122 Kollmorgen B104/B106, M-103/105/ AKM3X-AN BH-124/126	/107,			LH: LH	3 PN 4 PN	VP stan VP stan	dard dard	(NC limits, NO (NO limits, NO	home) home)
	F081	Yaskawa SGMPH-02XXX, SGMPH-04XXX, SGMP-02, SGMP-0)4			*Inc	ludes 5 m	eter exte	ension	cables	
	F082	Yaskawa SGMAH-08 SGM-08 Allen Bradley Y-3023			0) <mark>Bra</mark> B1	a ke * No	o brake			
	F083 F101	Allen Bradley LD-3009 Indramat MKD041				B2	Br	ake			
	F111	Parker JO92X/NO92X			(8) En R1	vironme IP:	ental P 30, Mai	roteo ntena	ction Ince free	



Fill in an order code from each of the numbered fields to create a complete model order code.

				0	2	3	4
			Order Example:	HD015	T04	NL	R1
1	<mark>Series</mark> HD015	15 mm					
0	Travel* T03 T04 T05 T06 T08 T10 T12 T14 T16 T18 T20	300 mm 400 mm 500 mm 600 mm 800 mm 1000 mm 1200 mm 1400 mm 1600 mm 1800 mm 2000 mm					
3	<mark>Carriag</mark> NL VL	e Option Single bearing truck Double bearing truck					
4	Environ	mental Protection					

R1 IP30, Maintenance free



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