Electric Actuator New High Rigidity and High Precision Slider Type

Circular arc grooves allow for high rigidity and high precision.

Moment resistance^{*1*2} Improved by 61%

Table displacement^{*1} Reduced by 50 %

With internal battery-less absolute encoder

- Restart from the last stop position is possible after recovery of the power supply.
- Reduced maintenance (No need for control or replacement)

Positioning repeatability: ±0.01 mm^{*3}

- *1 Compared with the LEFS
- *2 Size 40, Mep, Overhang: 300 mm

LEKFS Series

*3 Excludes the lead H





With a 4-row circular arc on each side for high rigidity and high precision (zero clearance)

Improved moment resistance



Improvod	- j			
Size	Moment	Work load [kg] (Overhang: 300 mm)		
	direction	High rigidity guide LEKFS	LEFS	
25		7.5 (10 % increase)	6.8	
32	Pitching (Mep)	18 (35 % increase)	13.3	
40		37 (61 % increase)	23	

Improved Dynamic Allowable Moment



Table displacement amount reduced to 1/2



Table Displacement

Sizo	Table displacement [m	Load	Load	
3126	High rigidity guide LEKFS	LEFS	[mm]	[N]
25	0.022 (50 % reduction)	0.044	25	200
32	0.036 (50 % reduction)	0.072	30	450
40	0.027 (50 % reduction)	0.053	37	500

Zero table clearance



Table Clearance

Size	Displacement due to table clearance [mm]			
0120	High rigidity guide LEKFS	LEFS		
25	0	0.079		
32	0	0.068		
40	0	0.052		

SMC

Auto switches are mountable.

Allows for position detection of the table throughout the stroke



Same dimensions as the LEF/Complete mounting compatibility is ensured.





Compatible Controllers

Battery-less Absolute Type (Step Motor 24 VDC)

Step Motor Controller JXC Series







* If the step motor and servo motors do not meet your specifications, also consider the AC servo specification.

LEKFS Series Battery-less Absolute (Step Motor 24 VDC)

Speed–Work Load Graph (Guide) For Battery-less Absolute (Step Motor 24 VDC), In-line Motor Type

* The following graphs show the values when the moving force is 100 %.

LEKFS25/Ball Screw Drive



LEKFS32/Ball Screw Drive

LEKFS40/Ball Screw Drive

Horizontal

Model Selection LEKFS Series Battery-less Absolute (Step Motor 24 VDC)

Speed–Work Load Graph (Guide) For Battery-less Absolute (Step Motor 24 VDC), Motor Parallel Type

* The following graphs show the values when the moving force is 100 %.

LEKFS25(L/R)/Ball Screw Drive

LEKFS32(L/R)/Ball Screw Drive

LEKFS40(L/R)/Ball Screw Drive

Horizontal

Static Allowable Moment^{*1}

Model	LEKFS25	LEKFS32	LEKFS40
Pitching [N·m]	61	141	264
Yawing [N·m]	70	141	264
Rolling [N·m]	115	290	473

*1 The static allowable moment is the amount of static moment which can be applied to the actuator when it is stopped.

If the product is exposed to impact or repeated load, be sure to take adequate safety measures when using the product.

Dynamic Allowable Moment

LEKFS Series Battery-less Absolute (Step Motor 24 VDC)

* These graphs show the amount of allowable overhang (guide unit) when the centre of gravity of the workpiece overhangs in one direction. When selecting the overhang, refer to the "Calculation of Guide Load Factor" or the Electric Actuator Model Selection Software for confirmation: https://www.smc.eu

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Model Selection LEKFS Series Battery-less Absolute (Step Motor 24 VDC)

Dynamic Allowable Moment

* These graphs show the amount of allowable overhang (guide unit) when the centre of gravity of the workpiece overhangs in one direction. When selecting the overhang, refer to the "Calculation of Guide Load Factor" or the Electric Actuator Model Selection Software for confirmation: https://www.smc.eu

Calculation of Guide Load Factor

1. Decide operating conditions. Model: LEKFS Size: 25/32/40

Acceleration [mm/s²]: **a** Work load [kg]: **m**

- Mounting orientation: Horizontal/Bottom/Wall/Vertical Work load centre position [mm]: Xc/Yc/Zc
- 2. Select the target graph while referencing the model, size, and mounting orientation.
- 3. Based on the acceleration and work load, find the overhang [mm]: Lx/Ly/Lz from the graph.
- 4. Calculate the load factor for each direction. α **x** = Xc/Lx, α **y** = Yc/Ly, α z = Zc/Lz
- 5. Confirm the total of αx , αy , and αz is 1 or less. $\alpha x + \alpha y + \alpha z \le 1$

When 1 is exceeded, please consider a reduction of acceleration and work load, or a change of the work load centre position and series.

Example

- 1. Operating conditions Model: LEKFS40 Size: 40 Mounting orientation: Horizontal Acceleration [mm/s²]: 3000 Work load [kg]: 20
- Work load centre position [mm]: Xc = 0, Yc = 50, Zc = 200

3. Lx = 400 mm, Ly = 250 mm, Lz = 1500 mm

4. The load factor for each direction can be found as follows.

 $\alpha x = 0/400 = 0$ $\alpha y = 50/250 = 0.2$

5. $\alpha x + \alpha y + \alpha z = 0.33 \le 1$

LEKFS Series Battery-less Absolute (Step Motor 24 VDC)

Table Accuracy (Reference Value)

	Travelling parallelism [mm] (Every 300 mm)			
Model	① C side travelling parallelism to A side	② D side travelling parallelism to B side		
LEKFS25	0.04	0.02		
LEKFS32 0.04		0.02		
LEKFS40	0.04	0.02		

* Travelling parallelism does not include the mounting surface accuracy.

Table Displacement (Reference Value)

* This displacement is measured when a 15 mm aluminium plate is mounted and fixed on the table.

	e
25	
32	
40	

_	In-line		
R	Right side parallel		
L	Left side parallel		

E Battery-less absolute (Step motor 24 VDC)

4 Lead [mm]					
Symbol	LEKFS25	LEKFS32	LEKFS40		
Η	20	24	30		
Α	12	16	20		
В	6	8	10		

5	Stroke*1

Sizo			Str	oke		
Size	100	200	300	400	500	600
25						—
32						—
40	_					

6 Motor	option
---------	--------

_	Without option	
В	With lock	

7	Actuator	cable	type/length	
---	----------	-------	-------------	--

Robotic	cable	[m]	
—	None	R8	8* ²
R1	1.5	RA	10 ^{*2}
R3	3	RB	15* ²
R5	5	RC	20* ²

- *1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 Order auto switches separately. (For details, refer to the Web Catalogue.)
- *3 The DIN rail is not included. It must be ordered separately.

≜Caution

[CE-compliant products]

EMC compliance was tested by combining the electric actuator LEKFS series and the controller JXC series.

The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify compliance with the EMC directive for the machinery and equipment as a whole.

[UL-compliant products]

The JXC series controllers used in combination with electric actuators are UL certified.

[Precautions relating to differences in controller versions]

When the JXC series is to be used in combination with the battery-less absolute encoder, use a controller that is version V3.4 or S3.4 or higher. For details, refer to the **Web Catalogue**.

*4 Select "—" for anything other than DeviceNet™, CC-Link, or parallel input.

Select "—," "S," or "T" for DeviceNet[™] or CC-Link. Select "—," "1," "3," or "5" for parallel input.

The actuator and controller are sold as a package.

Confirm that the combination of the controller and actuator is correct.

<Check the following before use.>

*1 Check the actuator label for the model number. This number should match that of the controller.

Refer to the Operation Manual for using the products.
 Please download it via our website: https://www.smc.eu

Trademark

EtherNet/IP[™] is a trademark of ODVA. DeviceNet[™] is a trademark of ODVA.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Туре	EtherCAT® direct input type	EtherNet/IP™ direct input type	PROFINET direct input type	DeviceNet™ direct input type	IO-Link direct input type	CC-Link direct input type	Step data input type		
Series	JXCE1	JXC91	JXCP1	JXCD1	JXCL1	JXCM1	JXC51 JXC61		
Features	EtherCAT® direct input	EtherNet/IP™ direct input	PROFINET direct input	DeviceNet™ direct input	IO-Link direct input	CC-Link direct input	Parallel I/O		
Compatible motor		Battery-less absolute (Step motor 24 VDC)							
Max. number of step data				64 points					
Power supply voltage				24 VDC					

SMC

LEKFS Series Battery-less Absolute (Step Motor 24 VDC)

Specifications

Battery-less Absolute (Step Motor 24 VDC)

					/								
		Mod	el			LEKFS25	;		LEKFS32			LEKFS40	
	Stroke [m	m]				100 to 500		100 to 500			200 to 600		
	Work lood	[ka]*1		Horizontal	12	25	30	20	45	50	25	55	65
	work load	[kg]		Vertical	0.5	7.5	15	4	10	20	2	2	23
		In line	Stroke	Up to 500	20 to 1100	12 to 750	6 to 400	24 to 1200	16 to 800	8 to 400	30 to 1200	20 to 850	10 to 300
SL	Speed*1	in-ine	range	501 to 600	—	—	—	—	_	—	30 to 1200	20 to 850	10 to 300
tio	[mm/s] Parallel	Stroke	Up to 500	20 to 900	12 to 600	6 to 300	24 to 800	16 to 650	8 to 325	30 to 750	20 to 550	10 to 300	
fica		Falallel	range	501 to 600	—	—	—	—	_	—	30 to 750	20 to 550	10 to 300
eci	Max. acceleration/deceleration [mm/s ²]			[mm/s²]					3000				
ds	Positioning repeatability [mm]							±0.0	1 (Lead H: ±	0.02)			
ator	Lost moti	on [mm]*2							0.05				
Stu	Lead [mm]			20	12	6	24	16	8	30	20	10	
Ă	Impact/Vil	bration resi	istance [m/	s²] *3					50/20				
	Actuation type								Ball screw				
	Guide typ	е							Linear guid	е			
	Operating	temperatu	re range [°	C]					5 to 40				
	Operating	humidity r	ange [%RH	1]	90 or less (No condensation)								
su	Motor size	9			□42 □56.4								
atio	Motor typ	e			Battery-less absolute (Step motor 24 VDC)								
lific	Encoder				Battery-less absolute (4096 pulse/rotation)								
bec	Rated vol	tage [V]				24 VDC ±10 %							
rics	Power cor	nsumption	[W] *4			38			50			100	
ecti	Standby po	wer consum	ption when o	perating [W]*5		16			44			43	
Ξ	Max. insta	ntaneous p	ower consu	mption [W]*6		57			123		141		
ations	Type*7							Non-	magnetisin	g lock		r	
pecific	Holding for	orce [N]			47	78	157	72	108	216	75	113	225
units	Power cor	nsumption	[W]*8			5			5			5	
Lock	Rated vol	tage [V]						2	4 VDC ±10	%			

*1 Speed changes according to the work load. Check the "Speed–Work Load Graph (Guide)" on pages 5 and 6.

Furthermore, if the cable length exceeds 5 m, then it will decrease by up to 10 % for each 5 m.

*2 A reference value for correcting errors in reciprocal operation

*3 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

*4 The power consumption (including the controller) is for when the actuator is operating.

*5 The standby power consumption when operating (including the controller) is for when the actuator is stopped in the set position during the operation.

*6 The max. instantaneous power consumption (including the controller) is for when the actuator is operating. This value can be used for the selection of the power supply.

*7 With lock only

*8 For an actuator with lock, add the power consumption for the lock.

Dimensions: In-line Motor

*1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more. (Recommended height: 5 mm)

In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.

*2 This is the distance within which the table can move when it returns to origin. Make sure workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.

- *3 Position after returning to origin
- *4 [] for when the direction of return to origin has changed
- *5 When using the positioning pin holes on the bottom, use either the one on the body side or the one on the housing side.

Dimensions										[mm]
Model	Without lock	With lock	Α	В	n	D	Е	F	G	н
LEKFS25E -100	335.5	380.5	106	210	4	—	—		100	
LEKFS25E -200	435.5	480.5	206	310	6	2	240		220	
LEKFS25E -300	535.5	580.5	306	410	8	3	360	35	340	45
LEKFS25E -400	635.5	680.5	406	510	8	3	360		340	
LEKFS25E -500	735.5	780.5	506	610	10	4	480		460	

Lock cable

□24

15

Dimensions: In-line Motor

LEKFS Series Battery-less Absolute (Step Motor 24 VDC)

LEKFS32E

*1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more. (Recommended height: 5 mm)

In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.

*2 This is the distance within which the table can move when it returns to origin. Make sure workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.

*3 Position after returning to origin

- *4 [] for when the direction of return to origin has changed
- *5 A switch spacer (BMY3-016) is required to secure auto switches. Please order it separately.
- *6 When using the positioning pin holes on the bottom, use either the one on the body side or the one on the housing side.

Dimensions								[mm]
Model	Without lock	With lock	Α	В	n	D	Е	G
LEKFS32E -100	382	434	106	230	4	—	—	130
LEKFS32E -200	482	534	206	330	6	2	300	280
LEKFS32E -300	582	634	306	430	6	2	300	280
LEKFS32E -400	682	734	406	530	8	3	450	430
LEKFS32E -500	782	834	506	630	10	4	600	580

Lock cable

24

2

15

Motor cable

Dimensions: In-line Motor

Motor option: With lock

- *1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more. (Recommended height: 5 mm)
 - In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.

*2 This is the distance within which the table can move when it returns to origin. Make sure workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.

- *3 Position after returning to origin
- *4 [] for when the direction of return to origin has changed
- *5 A switch spacer (BMY3-016) is required to secure auto switches. Please order it separately.
- *6 When using the positioning pin holes on the bottom, use either the one on the body side or the one on the housing side.

Dimensions								[mm]
Model	Without lock	With lock	Α	В	n	D	Е	G
LEKFS40E -200	556	605	206	378	6	2	300	280
LEKFS40E -300	656	705	306	478	6	2	300	280
LEKFS40E -400	756	805	406	578	8	3	450	430
LEKFS40E -500	856	905	506	678	10	4	600	580
LEKFS40E -600	956	1005	606	778	10	4	600	580

Dimensions: Motor Parallel

LEKFS25R

*1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more. (Recommended height: 5 mm) In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.

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- *2 This is the distance within which the table can move when it returns to origin. Make sure workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.
- *3 Position after returning to origin
- *4 [] for when the direction of return to origin has changed
- *5 When using the positioning pin holes on the bottom, use either the one on the body side or the one on the housing side.
- * This illustration shows the motor mounting position for the right side parallel type.

Dimensions									[mm]
Model	L	Α	В	n	D	E	F	G	Н
LEKFS2500-100	260.5	106	210	4	_	—		100	
LEKFS250-200	360.5	206	310	6	2	240		220	
LEKFS25 -300	460.5	306	410	8	3	360	35	340	45
LEKFS250-400	560.5	406	510	8	3	360		340	
LEKFS25	660.5	506	610	10	4	480		460	

Dimensions: Motor Parallel

LEKFS32R

- *1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more. (Recommended height: 5 mm) In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.
- *2 This is the distance within which the table can move when it returns to origin. Make sure workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.
- *3 Position after returning to origin
- *4 [] for when the direction of return to origin has changed
- *5 A switch spacer (BMY3-016) is required to secure auto switches. Please order it separately.
- *6 When using the positioning pin holes on the bottom, use either the one on the body side or the one on the housing side.
- $\ast\,$ This illustration shows the motor mounting position for the right side parallel type.

Dimensions [mm]							
Model	L	Α	В	n	D	E	G
LEKFS32 -100	295	106	230	4		_	130
LEKFS32 -200	395	206	330	6	2	300	280
LEKFS32 -300	495	306	430	6	2	300	280
LEKFS32 -400	595	406	530	8	3	450	430
LEKFS32	695	506	630	10	4	600	580

Dimensions: Motor Parallel

LEKFS Series Battery-less Absolute (Step Motor 24 VDC)

LEKFS40R

*1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more. (Recommended height: 5 mm) In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.

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- *2 This is the distance within which the table can move when it returns to origin. Make sure workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.
- *3 Position after returning to origin
- *4 [] for when the direction of return to origin has changed
- *5 A switch spacer (BMY3-016) is required to secure auto switches. Please order it separately.
- *6 When using the positioning pin holes on the bottom, use either the one on the body side or the one on the housing side.
- * This illustration shows the motor mounting position for the right side parallel type.

Dimensions							[mm]
Model	L	Α	В	n	D	E	G
LEKFS40 -200	453.4	206	378	6	2	300	280
LEKFS40 -300	553.4	306	478	6	2	300	280
LEKFS40 -400	653.4	406	578	8	3	450	430
LEKFS40 -500	753.4	506	678	10	4	600	580
LEKFS40 -600	853.4	606	778	10	4	600	580

▲ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of **"Caution," "Warning"** or **"Danger."** They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC) ¹, and other safety regulations.

\wedge	Caution:	Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
Â	Warning:	Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
\wedge	Danger:	Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

▲ Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications. Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.

- 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
- 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
- 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

- 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
- 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalogue.
- 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
- 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

▲ Caution

 The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries.

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

1) ISO 4414: Pneumatic fluid power – General rules relating to systems. ISO 4413: Hydraulic fluid power – General rules relating to systems.

IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Manipulating industrial robots - Safety. etc.

Limited warranty and Disclaimer/Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first. ²⁾ Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

▲ Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country.

Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

▲ Safety Instructions

Electric Actuator High Rigidity and High Precision Slider Type

SMC Corporation

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Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.