



# Release list

# Electromechanical technology

**for Component-Productions  
of the Volkswagen Group  
“Craft specific Part”**

The release of the components listed in this list occurs  
only after consultation with the specialist department.

**Release date: 01 January 2024**  
**Version: 2.6**

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## Change historie

Ausgabe	Datum:	Beschreibung
2.0	01.01.2018	First edition
2.3	01.01.2021	<u>Updated chapters:</u> 1- Contact persons
2.4	01.01.2022	
2.5	01.01.2023	<u>Updated chapters:</u> address contact persons
2.6	01.01.2024	<u>Updates contact persons</u>

Changes to content are highlighted in grey.

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## 1. Contact persons

### General Corporate Services

**Ralf Roske**

Manager Key Account Management Automotive

Tel.: +49 162-2999760

E-Mail: [roske.ralf@smc.de](mailto:roske.ralf@smc.de)

SMC Deutschland GmbH

Technisches Büro Wolfsburg

Berliner Ring 2

D-38440 Wolfsburg

### Office support

**Hans Bergen**

E-Mail: [VWGroup@smc.de](mailto:VWGroup@smc.de)

SMC Deutschland GmbH

Sales Office Bielefeld

Max-Planck-Str. 62

D-32107 Bad Salzufen

Tel.: +49 5222 99897-769

**Dorothea Sahlfeld**

E-Mail: [VWGroup@smc.de](mailto:VWGroup@smc.de)

SMC Deutschland GmbH

Headquarter

Boschring 13-15

D-63329 Egelsbach

Tel.: +49 6103 402-120

### Field support

#### Volkswagen Plants: Wolfsburg, Braunschweig, Salzgitter, Kassel, Hannover Gießerei

**Thomas Maneke**

Key Account Manager Automotive

Tel.: +49 162 2999789

E-Mail: [maneke.thomas@smc.de](mailto:maneke.thomas@smc.de)

SMC Deutschland GmbH

Technisches Büro Wolfsburg

Berliner Ring 2

D-38440 Wolfsburg

**Andreas Dinse**

Key Account Manager Automotive

Tel.: +49 162 2999937

E-Mail: [dinse.andreas@smc.de](mailto:dinse.andreas@smc.de)

SMC Deutschland GmbH

Technisches Büro Wolfsburg

Berliner Ring 2

D-38440 Wolfsburg

### Audi Plant: Ingolstadt

**Peter Huber**

Account Manager Automotive

Tel.: +49 162 2991113

E-Mail: [huber.peter@smc.de](mailto:huber.peter@smc.de)

SMC Deutschland GmbH

Sales Office Nürnberg

Nordostpark 16

D-90411 Nürnberg

Tel.: +49 6103 402-0

---

### **Audi Werk: Neckarsulm**

**Peter Huber**

Account Manager Automotive

Tel.: +49 162 2991113

E-Mail: [huber.peter@smc.de](mailto:huber.peter@smc.de)

SMC Deutschland GmbH

Sales Office Nürnberg

Nordostpark 16

D-90411 Nürnberg

Tel.: +49 6103 402-0

### **Volkswagen Plant: Chemnitz**

**Tom Bauer**

Account Manager Automotive

Tel.: +49 162 2991093

E-Mail: [bauer.tom@smc.de](mailto:bauer.tom@smc.de)

SMC Deutschland GmbH

Sales Office Leipzig

Lindenthaler Hauptstraße 145

D-04158 Leipzig

Tel.: +49 341 609690

### **Audi Plant: Győr, Hungary**

**Peter Juranowitz**

Sales - OEM

Tel.: +36 23 513 227

E-Mail: [sales@smc.hu](mailto:sales@smc.hu)

SMC Pneumatik GmbH

HU/CEE

Sales Office Törökbálint

Torbágy utca 15-19.

H-2045 Törökbálint

Kd. Service: [sales@smc.hu](mailto:sales@smc.hu)

### **Volkswagen Plant: Polkowice, Poland**

**Paweł Borowiec**

Car Business Development Manager

Tel.: +48 512 348 859

E-Mail: [p.borowiec@smc.pl](mailto:p.borowiec@smc.pl)

SMC Pneumatik GmbH

PL/CEE

Regional Office &amp; Training Centre Poznan

Ul. Innowatorów 8

62-070 Dabrowa

Kundenservice: [sales@smc.pl](mailto:sales@smc.pl)**Mateusz Kędzierski**

Technical Support Engineer

Tel.: +48 784 001 621

E-Mail: [m.kedzierski@smc.pl](mailto:m.kedzierski@smc.pl)

SMC Pneumatik GmbH

PL/CEE

Regional Office &amp; Training Centre Poznan

Ul. Innowatorów 8

62-070 Dabrowa

---

**Skoda Plant: Mlada Boleslav, Tschechien**

**Petr Hettner**

Sales Engineer CAR

Tel.: +420 739 389 660

E-Mail: p.hettner@smc.cz

SMC Pneumatik GmbH

CZ/CEE

Sales Office Mladá Boleslav

Tř. Václava Klementa 1459

293 01 Mladá Boleslav

Kundenservice: sales@smc.cz

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## 2. Notes

### 2.1 Usage

The basis for the following release list is the **specification mechanics for the component production of the Volkswagen group** in the respective current issue. The respective requirements and restrictions must be followed.

### 2.2 General Information

#### Purpose of use

The SMC Deutschland GmbH products listed in this release list are intended to cover the requirements in the production areas engine, transmission, chassis and foundry of the Volkswagen Group and must be used as far as possible in terms of efficient procurement, planning, maintenance and storage.

If, for project-specific reasons, deviations are required for a better solution of the production tasks, the special components must be coordinated with the customer in good time.

The operating manuals of VW AG, Mechanic-BV 1.10, Hydraulic-BV 1.12, Pneumatics-BV 1.13 and Lubrication-BV 1.17 are not valid with specification and compliance with this LH for the production areas engine, gearbox, chassis and foundry of the Volkswagen Group.

#### **The approved products are limited to the specified part numbers of SMC Deutschland GmbH**

The approved motors can be found in the **electrical specifications**.

The components listed in this list are only released after consultation with the specialist department.


The release list does not release the requirement to read the **specification sheet Mechanics for the Component Production of the Volkswagen Group**.

The general terms and conditions of SMC Deutschland GmbH known to you apply.

### 3. Overview

#### 3.1 Electromechanical drives


##### 3.1.1 Electric cylinder

Illustration	Part	Description	Web link
	Electric cylinder	Body size: 25, 32, 63 stroke: 30 ... 800 mm force: 30 ... 3500 N power: 100 – 400 W  Motor connection axial, parallel or linear Ball screw drive with different pitches Suitable for electric drives according to VW approval list (Siemens, Bosch)	<a href="#">LEY</a>

Part	pitch	Stroke length[mm]	Part number
Electric cylinder BG 25	12 mm	50	LEY25DN*A-50M
Electric cylinder BG 25	6 mm	50	LEY25DN*B-50M
Electric cylinder BG 25	3 mm	50	LEY25DN*C-50M
Electric cylinder BG 25	12 mm	100	LEY25DN*A-100M
Electric cylinder BG 25	6 mm	100	LEY25DN*B-100M
Electric cylinder BG 25	3 mm	100	LEY25DN*C-100M
Electric cylinder BG 25	12 mm	200	LEY25DN*A-200M
Electric cylinder BG 25	6 mm	200	LEY25DN*B-200M
Electric cylinder BG 25	3 mm	200	LEY25DN*C-200M
Electric cylinder BG 25	12 mm	300	LEY25DN*A-300M
Electric cylinder BG 25	6 mm	300	LEY25DN*B-300M
Electric cylinder BG 25	3 mm	300	LEY25DN*C-300M
Electric cylinder BG 25	12 mm	400	LEY25DN*A-400M
Electric cylinder BG 25	6 mm	400	LEY25DN*B-400M
Electric cylinder BG 25	3 mm	400	LEY25DN*C-400M
Electric cylinder BG 32	16 mm	50	LEY32DN*A-50M
Electric cylinder BG 32	8mm	50	LEY32DN*B-50M
Electric cylinder BG 32	4mm	50	LEY32DN*C-50M
Electric cylinder BG 32	16 mm	100	LEY32DN*A-100M
Electric cylinder BG 32	8mm	100	LEY32DN*B-100M
Electric cylinder BG 32	4mm	100	LEY32DN*C-100M
Electric cylinder BG 32	16 mm	200	LEY32DN*A-200M
Electric cylinder BG 32	8mm	200	LEY32DN*B-200M
Electric cylinder BG 32	4mm	200	LEY32DN*C-200M
Electric cylinder BG 32	16 mm	300	LEY32DN*A-300M
Electric cylinder BG 32	8mm	300	LEY32DN*B-300M
Electric cylinder BG 32	4mm	300	LEY32DN*C-300M

\* Selection of mounting type / coupling for Siemens (X) or Bosch (Y) electric motor



Illustration	Part	Description	Web link
	Electric cylinder	Body size: 25, 32, 63 stroke: 30 ... 800 mm force: 30 ... 3500 N power: 100 – 400 W  Motor connection axial, parallel or linear Ball screw drive with different pitches Suitable for electric drives according to VW approval list (Siemens, Bosch)	<a href="#">LEY</a>

Part	pitch	Stroke length[mm]	Part number
Electric cylinder BG 32	16 mm	400	LEY32DN*A-400M
Electric cylinder BG 32	8mm	400	LEY32DN*B-400M
Electric cylinder BG 32	4mm	400	LEY32DN*C-400M
Electric cylinder BG 32	16 mm	500	LEY32DN*A-500M
Electric cylinder BG 32	8mm	500	LEY32DN*B-500M
Electric cylinder BG 32	4mm	500	LEY32DN*C-500M
Electric cylinder BG 63	20 mm	100	LEY63DN*A-100M
Electric cylinder BG 63	10 mm	100	LEY63DN*B-100M
Electric cylinder BG 63	5 mm	100	LEY63DN*C-100M
Electric cylinder BG 63	20 mm	200	LEY63DN*A-200M
Electric cylinder BG 63	10 mm	200	LEY63DN*B-200M
Electric cylinder BG 63	5 mm	200	LEY63DN*C-200M
Electric cylinder BG 63	20 mm	300	LEY63DN*A-300M
Electric cylinder BG 63	10 mm	300	LEY63DN*B-300M
Electric cylinder BG 63	5 mm	300	LEY63DN*C-300M
Electric cylinder BG 63	20 mm	400	LEY63DN*A-400M
Electric cylinder BG 63	10 mm	400	LEY63DN*B-400M
Electric cylinder BG 63	5 mm	400	LEY63DN*C-400M
Electric cylinder BG 63	20 mm	500	LEY63DN*A-500M
Electric cylinder BG 63	10 mm	500	LEY63DN*B-500M
Electric cylinder BG 63	5 mm	500	LEY63DN*C-500M

\* Selection of mounting type / coupling for Siemens (X) or Bosch (Y) electric motor

## How to order

LEY H 25 [ ] NZ B - 500 [ ] [ ] [ ]

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

### ① Accuracy

—	Basic type
H	High precision type

### ② Size

25
32
63

### ④ Motor type

Symbol	Type
NZ	Fixation Z
NY	Fixation Y
NX	Fixation X
NW	Fixation W
NV	Fixation V
NU	Fixation U
NT	Fixation T
NM1	Fixation M1
NM2	Fixation M2

### ⑤ Lead [mm]

Symbol	LEY25	LEY32	LEY63
A	12	16 (20)	20
B	6	8 (10)	10
C	3	4 (5)	5
L	—	—	2.86*2

\*1 The values shown in ( ) are the lead for top mounting, right/left side parallel types. (Equivalent lead which includes the pulley ratio [1.25:1])

\*2 Only available for top mounting and right/left side parallel types. (Equivalent lead which includes the pulley ratio [4:7])

### ⑥ Stroke [mm]

30	30
to	to
800	800

\* Refer to the applicable stroke table.

### ③ Motor mounting position

—	Top mounting
R	Right side parallel
L	Left side parallel
D	In-line

### ⑦ Dust/Water-proof

Symbol	LEY25/32	LEY63
—	IP4x equivalent	IP5x equivalent (Dust-protected)
P	—	IP65 equivalent (Dust/Water-proof) With vent hole tap

\* When using the dust/water-proof (IP65 equivalent), correctly mount the fitting and tubing to the vent hole tap, and then place the other end of the tubing in an area not exposed to dust or water.

\* The fitting and tubing should be provided separately by the user. Select [Applicable tubing O.D.: Ø 4 or more, Connection thread: Rc 1/8].

\* Cannot be used in environments exposed to cutting oil etc. Take suitable protective measures.

### ⑧ Rod end thread

—	Rod end female thread
M	Rod end male thread (1 rod end nut is included.)

### ⑨ Mounting\*1

Symbol	Type	Motor mounting position	
		Top/Parallel	In-line
—	Ends tapped/ Body bottom tapped*2	●	●
L	Foot	●	—
F	Rod flange*2	●*4	●
G	Head flange*2	●*5	—
D	Double clevis*3	●	—

\*1 Mounting bracket is shipped with the actuator, (but not assembled).

\*2 For horizontal cantilever mounting with the ends tapped, rod flange and head flange, use the actuator within the following stroke range.

- LEY25: 200 mm or less, LEY32: 100 mm or less, LEY63: 400 mm or less

\*3 For mounting with the double clevis, use the actuator within the following stroke range.

- LEY25: 200 mm or less, LEY32: 200 mm or less

\*4 If the stroke of the LEY25 is "30 mm or less", the rod flange may interfere with the motor.

\*5 Head flange is not applicable to the in-line type or the LEY32/63.


### Applicable Stroke Table

Model	Stroke [mm]	●: Standard													
		30	50	100	150	200	250	300	350	400	450	500	600	700	800
LEY25		●	●	●	●	●	●	●	●	●	—	—	—	—	—
LEY32		●	●	●	●	●	●	●	●	●	●	●	—	—	—
LEY63		—	—	●	—	●	—	●	—	●	—	●	●	●	●

\* Please consult with SMC for non-standard strokes as they are produced as special orders.

For auto switches, refer to pages 117 to 119.

### 3.1.2 Electric cylinder guide rod type

Illustration	Part	Description	Web link
	Electric cylinder	Body size: 25, 32, stroke: 30 ... 300 mm force: 30 ... 3500 N power: 100 – 200 W  Motor connection axial or parallel Ball screw drive with various pitches Suitable for electric drives according to VW approval list (Siemens, Bosch)	<a href="#">LEYG</a>

Part	pitch	Stroke length[mm]	Part number
Electric cylinder FG BG 25	12 mm	50	LEYG25MDN*A-50
Electric cylinder FG BG 25	6 mm	50	LEYG25MDN*B-50
Electric cylinder FG BG 25	3 mm	50	LEYG25MDN*C-50
Electric cylinder FG BG 25	12 mm	100	LEYG25MDN*A-100
Electric cylinder FG BG 25	6 mm	100	LEYG25MDN*B-100
Electric cylinder FG BG 25	3 mm	100	LEYG25MDN*C-100
Electric cylinder FG BG 25	12 mm	200	LEYG25MDN*A-200
Electric cylinder FG BG 25	6 mm	200	LEYG25MDN*B-200
Electric cylinder FG BG 25	3 mm	200	LEYG25MDN*C-200
Electric cylinder FG BG 25	12 mm	300	LEYG25MDN*A-300
Electric cylinder FG BG 25	6 mm	300	LEYG25MDN*B-300
Electric cylinder FG BG 25	3 mm	300	LEYG25MDN*C-300
Electric cylinder FG BG 32	16 mm	50	LEYG32MDN*A-50
Electric cylinder FG BG 32	8mm	50	LEYG32MDN*B-50
Electric cylinder FG BG 32	4mm	50	LEYG32MDN*C-50
Electric cylinder FG BG 32	16 mm	100	LEYG32MDN*A-100
Electric cylinder FG BG 32	8mm	100	LEYG32MDN*B-100
Electric cylinder FG BG 32	4mm	100	LEYG32MDN*C-100
Electric cylinder FG BG 32	16 mm	200	LEYG32MDN*A-200
Electric cylinder FG BG 32	8mm	200	LEYG32MDN*B-200
Electric cylinder FG BG 32	4mm	200	LEYG32MDN*C-200
Electric cylinder FG BG 32	16 mm	300	LEYG32MDN*A-300
Electric cylinder FG BG 32	8mm	300	LEYG32MDN*B-300
Electric cylinder FG BG 32	4mm	300	LEYG32MDN*C-300

\* Selection of mounting type / coupling for Siemens (X) or Bosch (Y) electric motor

## How to order

LEY H G 25 M   NZ B - 200  

1  
 2  
 3  
 4  
 5  
 6  
 7  
 8

### 1 Accuracy

—	Basic type
H	High precision type

### 2 Size

25
32

### 3 Bearing type

M	Sliding bearing
L	Ball bushing bearing

### 4 Motor mounting position

—	Top mounting
D	In-line

### 5 Motor type

Symbol	Type
NZ	Mounting type Z
NY	Mounting type Y
NX	Mounting type X
NW	Mounting type W
NV	Mounting type V
NU	Mounting type U
NT	Mounting type T
NM1	Mounting type M1
NM2	Mounting type M2

\* Refer to the "Compatible Motors."

### 6 Lead [mm]

Symbol	LEYG25	LEYG32*
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

\* The values shown in ( ) are the lead for size 3 2 top mounting type. (Equivalent lead which includes the pulley ratio [1.25:1])

### 7 Stroke [mm]

30	30
to	to
300	300

\* Refer to the applicable stroke table.

### 8 Guide option

—	Without option
F	With grease retaining function

\* Only available for sliding bearing.

### Applicable Stroke Table

●: Standard


Model	Stroke [mm]						
	30	50	100	150	200	250	300
LEYG25	●	●	●	●	●	●	●
LEYG32	●	●	●	●	●	●	●

\* Please consult with SMC for non-standard strokes as they are produced as special orders.

### When using an auto switch with the guide rod type LEYG series

- Insert the auto switch from the front side with the rod (plate) extended.
- For the parts hidden behind the guide attachment (Rod end), the auto switch cannot be fixed.
- Please consult with SMC when using an auto switch at the rod end, as it is produced as a special order.

### 3.1.3 Ball Screw drive

Illustration	Part	Description	Web link
	Spindle drive slide version	Body size: 25, 32, 40 stroke: 50 ... 1200 mm work load: 4 – 60 kg power: 100 – 400 W  Motor connection linear or parallel Ball screw drive with various pitches Suitable for electric drives according to VW approval list (Siemens, Bosch)	<a href="#">LEFS</a>

The following stroke lengths are released [mm]: 100, 150, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000  
 Special strokes and strokes > 1000mm require a special approval

Part	pitch	Stroke length[mm]	Part number
Spindle axis BG25	20 mm	max. 800 mm	LEFS25N*H-Hub
Spindle axis BG25	12 mm	max. 800 mm	LEFS25N*A-Hub
Spindle axis BG25	6 mm	max. 800 mm	LEFS25N*B-Hub
Spindle axis BG32* <sup>1</sup>	24 mm	max. 1000 mm	LEFS32N*H-Hub
Spindle axis BG32* <sup>1</sup>	16 mm	max. 1000 mm	LEFS32N*A-Hub
Spindle axis BG32* <sup>1</sup>	8 mm	max. 1000 mm	LEFS32N*B-Hub
Spindle axis BG40* <sup>1</sup>	30 mm	max. 1200 mm	LEFS40N*H-Hub
Spindle axis BG40* <sup>1</sup>	20 mm	max. 1200 mm	LEFS40N*A-Hub
Spindle axis BG40* <sup>1</sup>	10 mm	max. 1200 mm	LEFS40N*B-Hub

\* Selection of mounting type / coupling for Siemens (X) or Bosch (Y) electric motor

\*1: Motor mounting position only linear

#### How to order

**LEFS H 25 R NZ A - 100 C N K**

1
2
3
4
5
6
7
8
9

#### 1 Accuracy

—	Basic type
H	High precision type

#### 2 Size

25
32
40

#### 3 Motor mounting position

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

#### 4 Motor type

Symbol	Type
NZ	Mounting type Z
NY	Mounting type Y
NX	Mounting type X
NW	Mounting type W
NV	Mounting type V
NU	Mounting type U
NT	Mounting type T
NM1	Mounting type M1
NM2	Mounting type M2

#### 5 Lead [mm]

Symbol	LEFS25	LEFS32	LEFS40
H	20	24	30
A	12	16	20
B	6	8	10

#### 6 Stroke [mm]

50	50
to	to
1200	1200

\* Refer to the applicable stroke table.


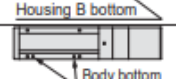
#### 7 Auto Switch mounting bracket

—	None
C	With 1 pc. (included)

\* If 2 or more are required, please order them separately. (Part no.: LEF-D-2-1 For details, refer to page 54.)

\* Order auto switches separately. (For details, refer to pages 55 and 56.)

#### 9 Positioning pin hole

—	Housing B bottom	
K	Body bottom 2 locations	

\* Refer to the body mounting example on page 58 for the mounting method.

#### 8 Grease application (Seal band part)


—	With
N	Without (Roller specification)

#### Applicable Stroke Table

Model	Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	1200
LEFS25		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—
LEFS32		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—
LEFS40		—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

\* Please consult with SMC for non-standard strokes as they are produced as special orders.

### 3.1.4 Electric Actuator/High Rigidity Slider Type

Illustration	Part	Description	Web link
	Spindle drives, slide design with high rigidity	Body size: 40, 63 stroke: 200 ... 1500 mm work load: 3 – 85 kg power: 100 – 200 W  Motor connection axial or parallel Ball screw drive with various pitches Suitable for electric drives according to VW approval list (Siemens, Bosch)	<a href="#">LEJS</a>

The following stroke lengths are released [mm]: 100, 150, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000  
Special strokes and strokes > 1000mm require a special approval.

Part	pitch	Stroke length[mm]	Part number
Spindle axis BG40	24 mm	max. 1200 mm	LEJS40N*H-Hub-
Spindle axis BG40	16 mm	max. 1200 mm	LEJS40N*A-Hub
Spindle axis BG40	8 mm	max. 1200 mm	LEJS40N*B-Hub
Spindle axis BG63	30 mm	max. 1500 mm	LEJS63N*H-Hub-
Spindle axis BG63	20 mm	max. 1500 mm	LEJS63N*A-Hub
Spindle axis BG63	10 mm	max. 1500 mm	LEJS63N*B-Hub

\* Selection of mounting type / coupling for Siemens (X) or Bosch (Y) electric motor

#### How to order

LEJS **H** **40** **NZ** **A** - **500**

①    ②    ③    ④    ⑤

#### ① Accuracy

—	Basic type
H	High precision type

#### ② Size

40
63

#### ③ Motor type

Symbol	Type
NZ	Mounting type Z
NY	Mounting type Y
NX	Mounting type X
NW*	Mounting type W
NV*	Mounting type V
NU*	Mounting type U
NT*	Mounting type T

\* Size 63 only

#### ④ Lead [mm]

Symbol	LEJS40	LEJS63
H	24	30
A	16	20
B	8	10

#### ⑤ Stroke [mm]

200
to
1500

\* For details, refer to the table below.


#### Applicable Stroke Table

●: Standard

Model \ Stroke [mm]	200	300	400	500	600	700	800	900	1000	1200	1500
LEJS40	●	●	●	●	●	●	●	●	●	●	—
LEJS63	—	●	●	●	●	●	●	●	●	●	●

\* Please consult with SMC for non-standard strokes as they are produced as special orders.

### 3.1.5 Electric Actuator /Slider Type Belt Drive

Illustration	Part	Description	Web link
	Belt Drive	Body size: 25, 32, 40 stroke: 300 - 3000 mm work load: 5 - 25 kg Power: 100 - 400 W  Motor connection above or below Suitable for electric drives according to VW approval list (Siemens, Bosch)	<a href="#">LEFB</a>

The following stroke lengths are released [mm]: 300, 400, 500, 600, 700, 800, 900, 1000  
 special strokes and strokes >1000mm require a special approval.

Part	pitch	Stroke length[mm]	Part number
Belt drive BG25	54 mm	max. 2000 mm	LEFB25N*S-Hub
Belt drive BG32	54 mm	max. 2500 mm	LEFB32N*S-Hub
Belt drive BG40	54 mm	max. 3000 mm	LEFB64N*S-Hub

\* Selection of mounting type / coupling for Siemens (X) or Bosch (Y) electric motor

#### How to order

LEFB **25** **NZ** S - **300** **C** **K**

①
②
③
④
⑤
⑥
⑦

#### ① Size

25
32
40

#### ② Motor mounting position

—	Top mounting
U	Bottom mounting

#### ③ Motor type

Symbol	Type
NZ	Mounting type Z
NY	Mounting type Y
NX	Mounting type X
NW	Mounting type W
NV	Mounting type V
NU	Mounting type U
NT	Mounting type T
NM1	Mounting type M1
NM2	Mounting type M2

#### ④ Equivalent lead [mm]

S	54
---	----

#### ⑤ Stroke [mm]

300	300
to	to
3000	3000

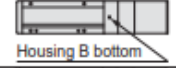
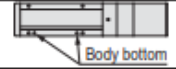
\* Refer to the applicable stroke table.

#### ⑥ Auto Switch mounting bracket

—	None
C	With 1 pc. (included)

\* If 2 or more are required, please order them separately. (Part no.: LEF-D-2-1 For details, refer to page 54.)  
 \* Order auto switches separately. (For details, refer to pages 55 and 56.)

#### ⑦ Positioning pin hole

—	Housing B bottom	
K	Body bottom 2 locations	

\* Refer to the body mounting example on page 58 for the mounting method.

#### Applicable Stroke Table

●: Standard/○: Produced upon receipt of order [mm]

Model	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2500	3000	
LEFB25	●	●	●	●	●	●	●	●	○	●	○	○	●	○	○	○	○	●	—	—	
LEFB32	●	●	●	●	●	●	●	●	○	●	○	○	●	○	○	○	○	○	●	●	—
LEFB40	●	●	●	●	●	●	●	●	○	●	○	○	●	○	○	○	○	○	●	●	●

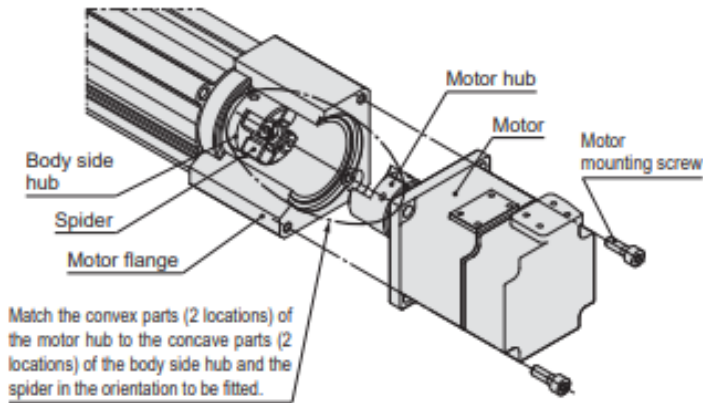
\* Please consult with SMC as all non-standard strokes are produced as special orders.

## 4. Details Motor mounting kits

### 4.1 Motor mounting kits NX Siemens Motor 1FK7

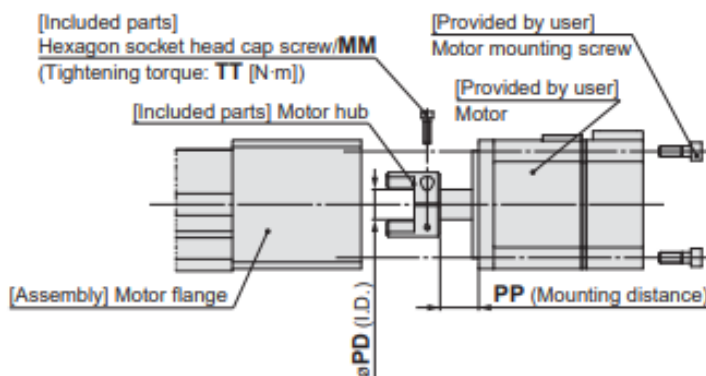
#### 4.1.1 Siemens motor mounting kit in-line for LEY/LEYG 25/32/63

##### Motor Mounting diagram in-line LEY/LEYG 25/32



##### Mounting procedure

- 1) Fix the motor (provided by user) and "the motor hub" with the "MM hexagon socket head cap screw."
- 2) Check the "motor hub" position, and then insert it.
- 3) Fix the motor and the "motor flange" with the motor mounting screws (provided by user)



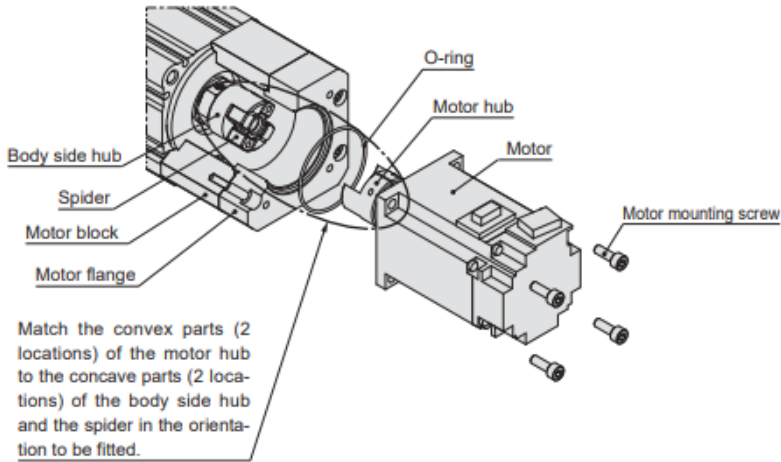
Dimensions of the coupling attachment [mm]

Motor Type	MM	TT	PD	PP
size 25 NX	M2,5 x 10	1,0	8,0	7,0
size 32 NX	M4,0 x 12	2,5	9,0	5,0

- **The motor and motor mounting screws should be provided by user!**
- Motor shaft style should be cylindrical for the motor types.
- When mounting a hub, remove any oil, dust, or dirt from the shaft and hub inside diameter.
- Take measures to prevent the motor mounting screws and socket head set screws becoming loose.

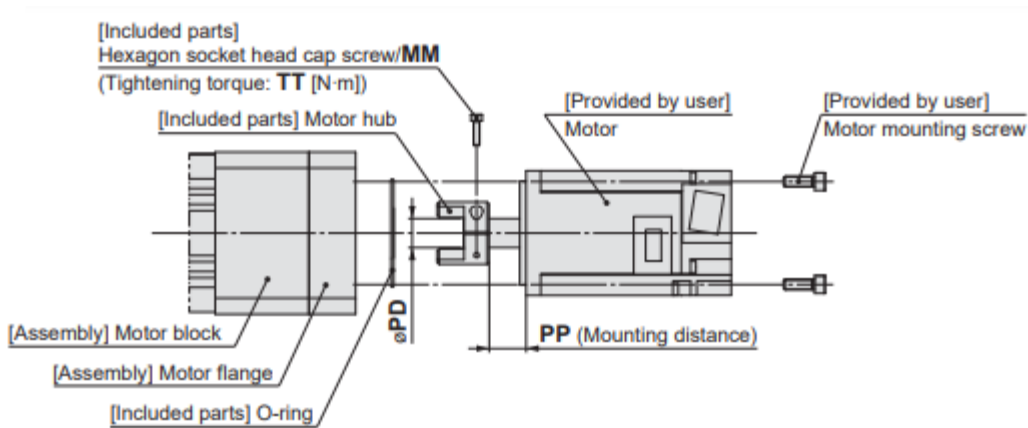


## Motor mounting diagram in-line LEY/LEYG 63



### Mounting procedure

- 1) Fix the motor (provided by user) and the "motor hub" with the "MM hexagon socket head cap screw."
- 2) Put the "O-ring" on the mating part of the motor and check the "motor hub position" and then insert it.
- 3) Fix the motor and the "motor flange" with the motor mounting screws (provided by user).



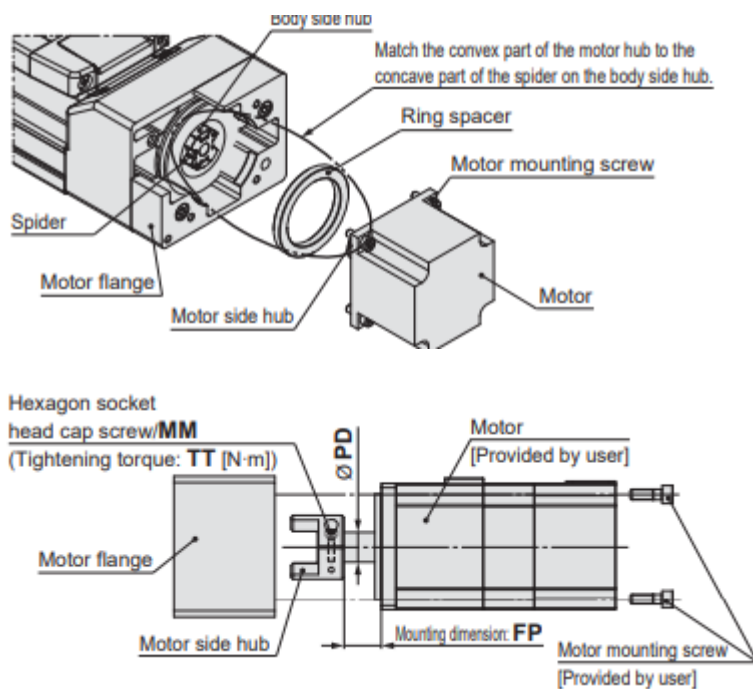
Dimensions of the coupling attachment [mm]

Motor type	MM	TT	PD	PP
size 63 NX	M4,0 x 12	2,5	9,0	6,7

- **The motor and motor mounting screws should be provided by user!**
- The motor drive shaft shape should be of the plain round type, without a keyway
- When mounting a hub, remove any oil, dust, or dirt from the shaft and hub inside diameter.
- Take measure to prevent the motor mounting screws becoming loose.

## 4.1.2 Siemens motor mounting kit in-line for LEFS 25/32/40

### Motor mounting diagram in-line LEFS 25/32/40



#### Mounting procedure

- 1) Fix the motor (provided by user) and the "motor hub" with the "MM hexagon socket head cap screw".
- 2) Check the "motor hub position", and then insert it.
- 3) Mount the "ring spacer" to the motor.
- 4) Fix the motor and the "motor flange" with the motor mounting screws (provided by user).  
\* For the LEFS25
- 4) Remove the "motor flange", which has been temporarily mounted, from the housing B, and secure the motor to the "motor flange" using the motor mounting screws (provided by user).
- 5) Tighten the "motor flange" to the "housing B" using the motor flange fixing screws (included parts).

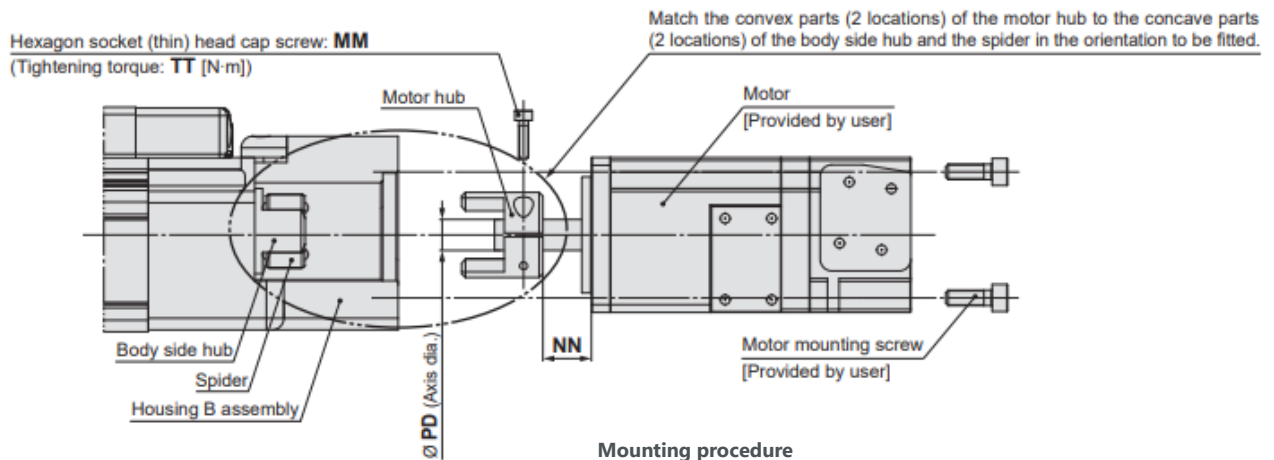
#### Dimensions of the coupling attachment [mm]

Motor type	MM	TT	PD	FP
size 25 NX	M2,5 x 10	1,0	8,0	6,9
size 32 NX	M4,0 x 12	2,5	9,0	5,2
size 40 NX	M4,0 x 12	2,5	9,0	5,2

- **The motor and motor mounting screws should be provided by user!**
- The motor drive shaft shape should be of the plain round type, without a keyway.
- When mounting a hub, remove any oil, dust, or dirt from the shaft and hub inside diameter.
- Take measure to prevent the motor mounting screws becoming loose.

### 4.1.3 Siemens motor mounting kit in-line for LEJS 40/63

#### Motor mounting diagram in-line LEJS 40/63



Note) All parts are included except where stated "provided by user"

#### Mounting procedure

- 1) Fix the motor (provided by user) and the "motor hub" with the "MM hexagon socket head cap screw."
- 2) Check the "motor hub position", and then insert it.
- 3) Fix the motor and the "housing B assembly" with the motor mounting

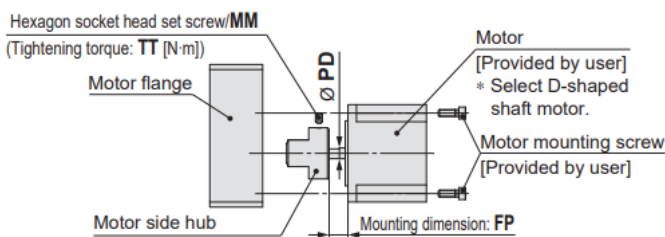
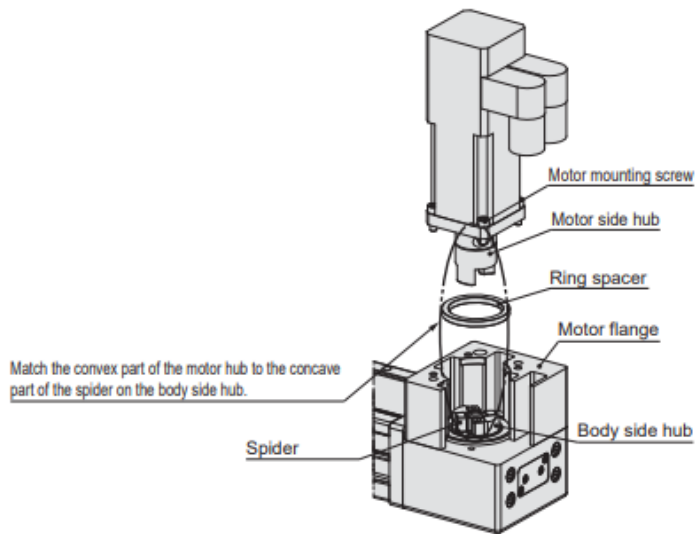
Dimensions of the coupling attachment [mm]

Motor type	MM	TT	NN	PD
size 40 NX	M2,5 x 10	0,65	7,0	8,0
size 63 NX	M4,0 x 12	2,70	8,0	9,0

- **This product does not include the motor and motor mounting screws. (Provided by user)**
- When mounting a hub, remove any oil, dust, or dirt from the shaft and hub inside diameter.
- The motor drive shaft shape should be of the plain round type, without a keyway.
- Take measures to prevent the motor mounting screws becoming loose.

## 4.1.4 Siemens motor mounting kit top for LEFB 25/32/40

### Motor mounting diagram top LEFB 25/32/40



#### Dimensions of the coupling attachment [mm]

Motor type	MM	TT	PD	FP
size 25 NX	M2,5 x 10	1,0	8,0	5,5
size 32 NX	M4,0 x 12	2,5	9,0	5,2
size 40 NX	M4,0 x 12	2,5	9,0	5,2

#### Mounting procedure

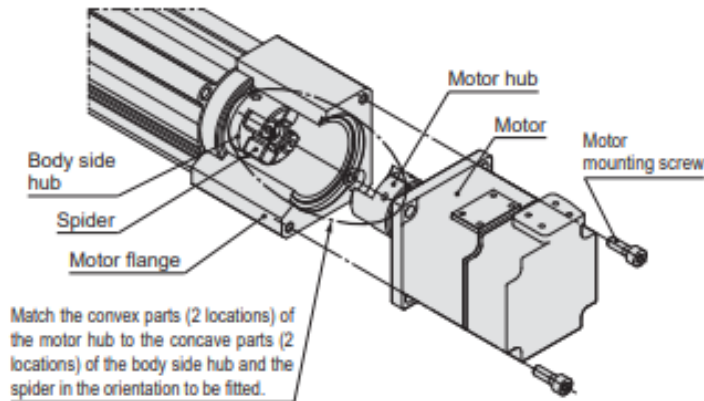
- 1) Fix the motor (provided by user) and the "motor hub" with the "MM hexagon socket head cap screw.
- 2) Check the "motor hub position", and then insert it.
- 3) Mount the "ring spacer" to the motor.
- 4) Fix the motor and the "motor flange" with the motor mounting screws (provided by user).  
\*For the LEFB25
- 4) Remove the "motor flange", which has been temporarily mounted, from the housing B, and secure the motor to the "motor flange" using the motor mounting screws (provided by user).
- 5) Tighten the "motor flange" to the "housing B" using motor flange fixing screws (included parts).

- **This product does not include the motor and motor mounting screws. (Provided by user)**
- When mounting a hub, remove any oil, dust, or dirt from the shaft and hub inside diameter.
- The motor drive shaft shape should be of the plain round type, without a keyway.
- Take measures to prevent the motor mounting screws becoming loose.

## 4.2 Motor mounting kit NY Bosch Motor MSM

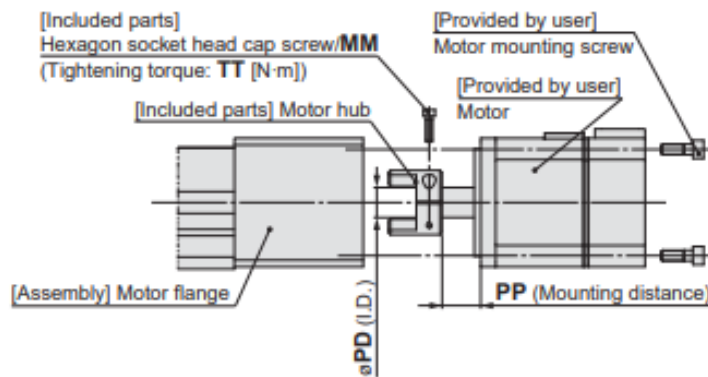
### 4.2.1 Bosch motor mounting kit in-line for LEY/LEYG 25/32/63

#### Motor Mounting diagram in-line LEY/LEYG 25/32



#### Mounting procedure

- 1) Fix the motor (provided by user) and "the motor hub" with the "MM hexagon socket head cap screw."
- 2) Check the "motor hub" position, and then insert it.
- 3) Fix the motor and the "motor flange" with the motor mounting screws (provided by user)

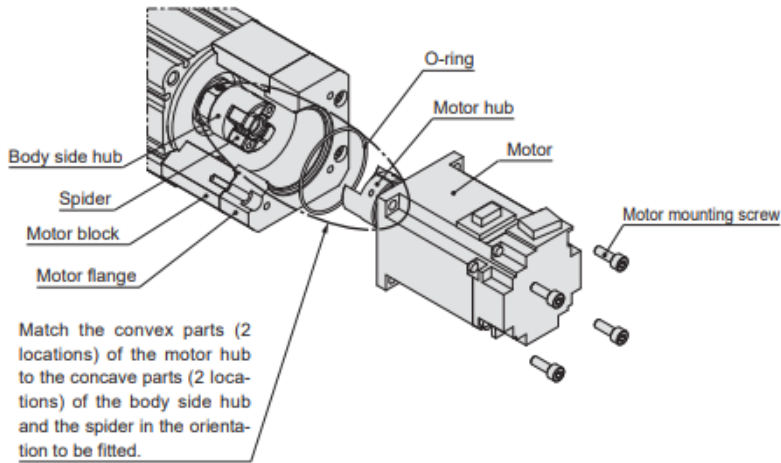


Dimensions of the coupling attachment [mm]

Motor type	MM	TT	PD	PP
size 25 NY	M2,5 x 10	1,0	8,0	12,5
size 32 NY	M4,0 x 12	2,5	11,0	18,0

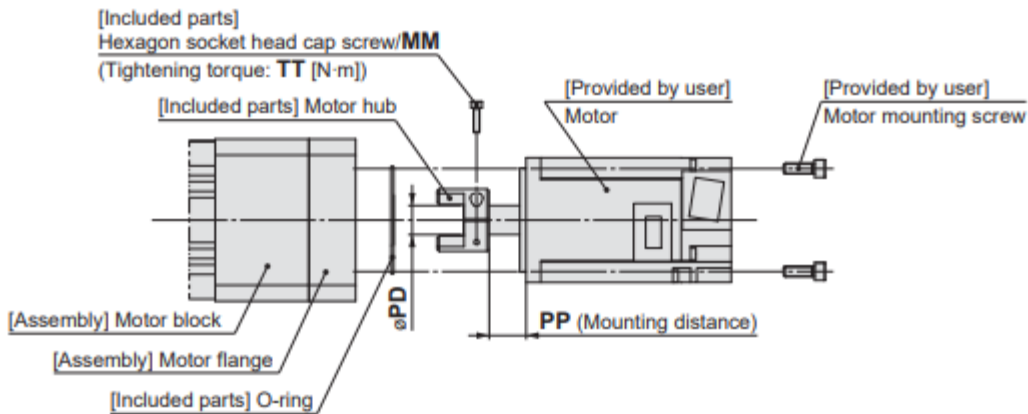
- **The motor and motor mounting screws should be provided by user!**
- Motor shaft style should be cylindrical for the motor types.
- When mounting a hub, remove any oil, dust, or dirt from the shaft and hub inside diameter.
- Take measures to prevent the motor mounting screws and socket head set screws becoming loose.

## Motor Mounting diagram in-line LEY/LEYG 63



### Mounting procedure

- 1) Fix the motor (provided by user) and the "motor hub" with the "MM hexagon socket head cap screw."
- 2) Put the "O-ring" on the mating part of the motor and check the "motor hub position" and then insert it.
- 3) Fix the motor and the "motor flange" with the motor



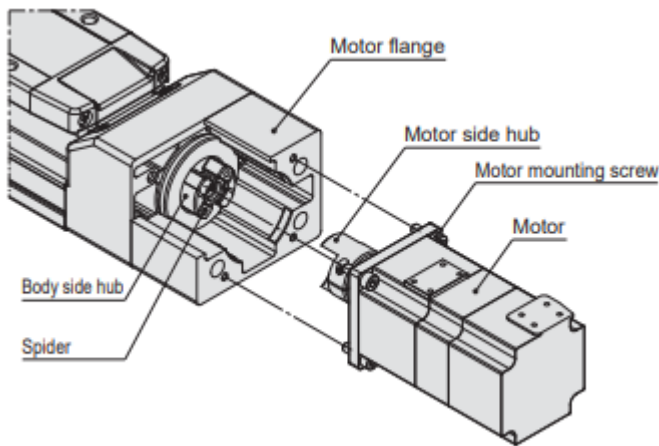
Dimensions of the coupling attachment [mm]

Motor type	MM	TT	PD	PP
size 63 NY	M3,0 x 12	1,5	14,0	17,7

- **The motor and motor mounting screws should be provided by user!**
- The motor drive shaft shape should be of the plain round type, without a keyway
- When mounting a hub, remove any oil, dust, or dirt from the shaft and hub inside diameter.
- Take measure to prevent the motor mounting screws becoming loose.

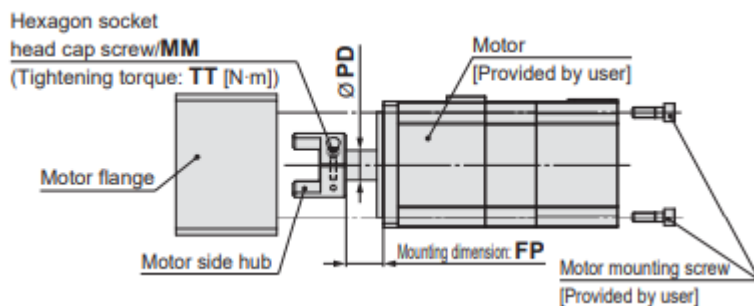
## 4.2.2 Bosch motor mounting kit in-line for LEFS 25/32/40

### Motor Mounting diagram in-line LEFS 25/32/40



#### Mounting procedure

- 1) Fix the motor (provided by user) and the "motor hub" with the "MM hexagon socket head cap screw."
- 2) Check the "motor hub position", and then insert it.
- 3) Fix the motor and the "motor flange" with the motor mounting screws (provided by user)



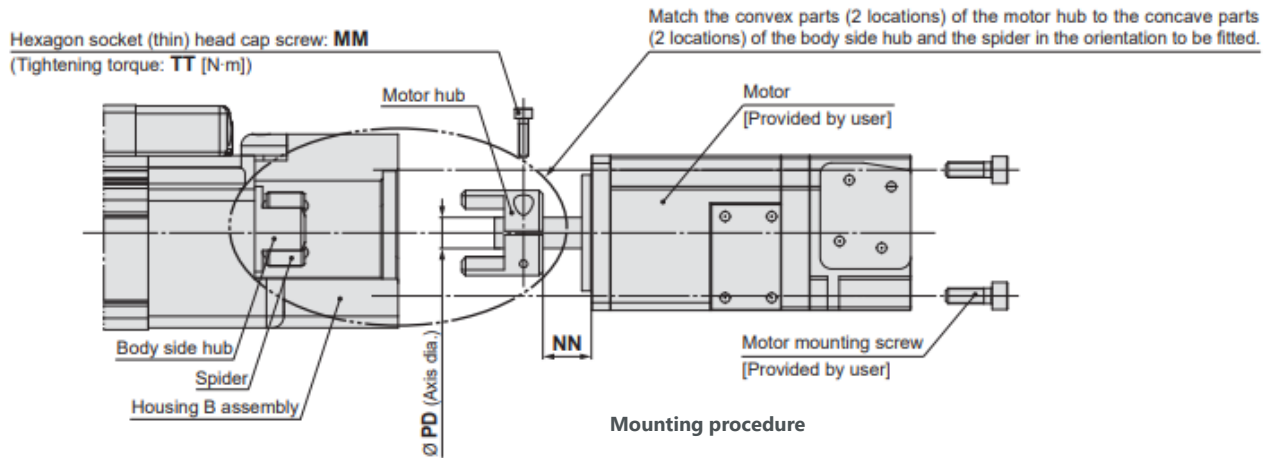
Dimensions of the coupling attachment [mm]

Motor type	MM	TT	PD	FP
size 25 NY	M2,5 x 10	1,0	8,0	12,4
size 32 NY	M4,0 x 12	2,5	11,0	17,5
size 40 NY	M3,0 x 12	1,5	14,0	17,5

- **The motor and motor mounting screws should be provided by user!**
- The motor drive shaft shape should be of the plain round type, without a keyway.
- When mounting a hub, remove any oil, dust, or dirt from the shaft and hub inside diameter.
- Take measure to prevent the motor mounting screws becoming loose.

## 4.2.3 Bosch motor mounting kit in-line for LEJS 40/63

### Motor mounting diagram in-line LEJS 40/63



Note) All parts are included except where stated "provided by user"

- 1) Fix the motor (provided by user) and the "motor hub" with the "MM hexagon socket head cap screw."
- 2) Check the "motor hub position", and then insert it.
- 3) Fix the motor and the "housing B assembly" with the motor mounting

Dimensions of the coupling attachment [mm]

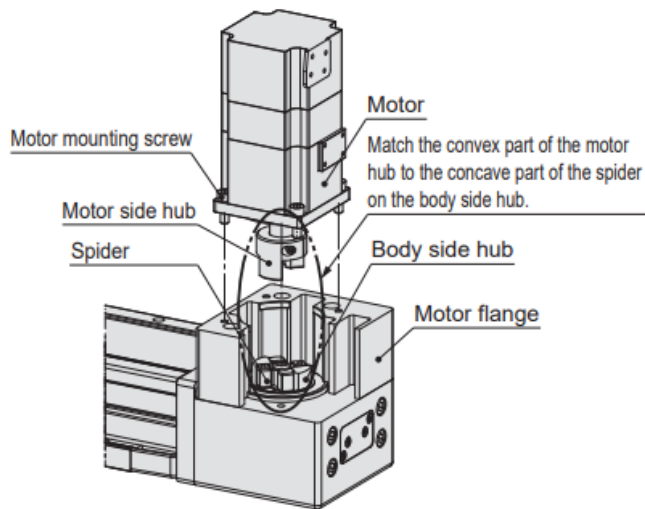
Motor type	MM	TT	NN	PD
size 40 NY	M2,5 x 10	0,65	12,5	8,0
size 63 NY	M4,0 x 12	2,70	18,0	11.0

- **This product does not include the motor and motor mounting screws. (Provided by user)**
- When mounting a hub, remove any oil, dust, or dirt from the shaft and hub inside diameter.
- The motor drive shaft shape should be of the plain round type, without a keyway.
- Take measures to prevent the motor mounting screws becoming loose.



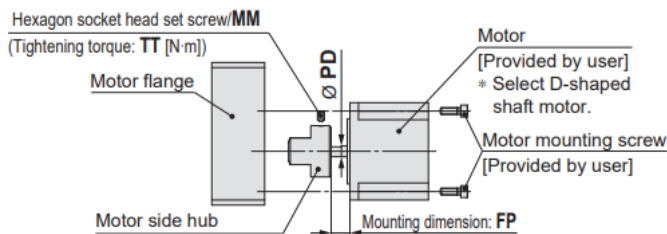
## 4.2.4 Bosch motor mounting kit top for LEFB 25/32/40

### Motor mounting diagram top LEFB 25/32/40



#### Mounting procedure

- 1) Fix the motor (provided by user) and the motor hub with the "MM hexagon socket head cap screw."
- 2) Check the "motor hub position", and then insert it.
- 3) Fix the motor and the "motor flange" with the motor mounting screws (provided by user).



Dimensions of the coupling attachment [mm]

Moto type	MM	TT	PD	FP
size 25 NY	M2,5 x 10	1,0	8,0	11,0
size 32 NY	M4,0 x 12	2,5	11,0	17,5
Size 40 NY	M3,0 x 12	1,5	14,0	17,5

- **This product does not include the motor and motor mounting screws. (Provided by user)**
- When mounting a hub, remove any oil, dust, or dirt from the shaft and hub inside diameter.
- The motor drive shaft shape should be of the plain round type, without a keyway.
- Take measures to prevent the motor mounting screws becoming loose.