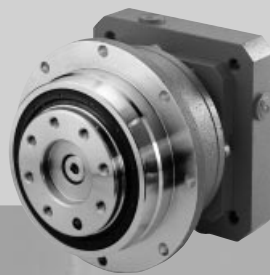


Low Backlash Planetary Gear Units

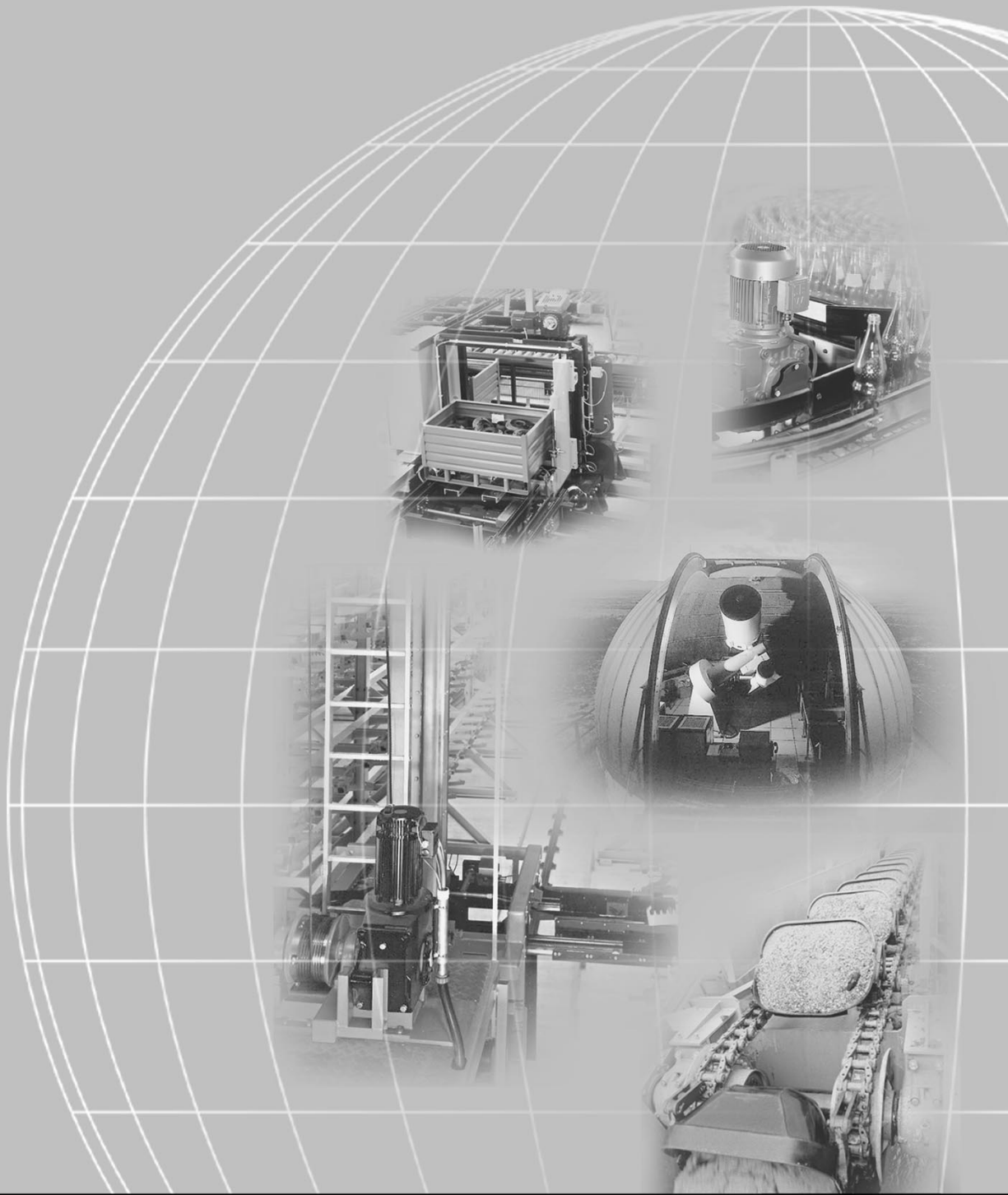
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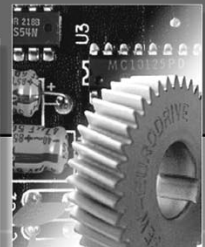
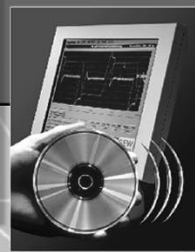


Operating Instructions

1051 4015 / EN



SEW-EURODRIVE





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1 Important Notes

Safety and warning instructions

Always follow the safety and warning instructions contained in this publication!



Hazard

Possible consequences: Severe or fatal injuries.



Hazardous situation

Possible consequences: Slight or minor injuries.



Harmful situation

Possible consequences: Damage to the drive and the environment.



Tips and useful information.



A requirement of fault-free operation and fulfillment of any rights to claim under guarantee is that the information in the operating instructions is adhered to. Consequently, read the operating instructions before you start working with the drive!

The operating instructions contain important information about servicing; as a result, they should be kept in the vicinity of the unit.

Waste disposal



Please follow the current instructions:

- Housing parts, gears, shafts and anti-friction bearings of the gear units must be disposed of as steel scrap. The same applies to gray cast iron castings unless there are separate collection arrangements.
- Collect waste oil and dispose of it correctly.



2 Safety Notes

Preliminary remarks



The following safety notes are principally concerned with the use of gear units.

If using **geared motors**, please also refer to the safety notes for motors in the corresponding operating instructions.

General information



During and after operation, geared motors and gear units have live and moving parts and their surfaces may be hot.

All work related to transport, putting into storage, setting up/mounting, connection, startup, maintenance and repair only by trained personnel observing

- the corresponding detailed operating instructions booklet(s) and wiring diagrams,
- the warning and safety signs on the gear unit/geared motor,
- the specific regulations and requirements for the system and
- national/regional regulations governing safety and the prevention of accidents.

Severe injuries and damage to property may result from

- incorrect use,
- incorrect installation or operation,
- removal of required protective covers or the housing when this is not permitted.

Designated use

These geared motors/gear units are intended for industrial systems. They correspond to the applicable standards and regulations. The technical data and the information about permitted conditions are to be found on the nameplate and in the documentation.

It is essential for all specified information to be observed!

Transport / putting into storage

Inspect the delivery for any damage in transit as soon as you receive the delivery. Inform the transport company immediately. It may be necessary to preclude startup.

Use suitable, sufficiently rated handling equipment if necessary. Remove any transport fixtures prior to startup.



Store the gear unit in a dry, dust-free room if it is not going to be installed straight away.



3 Setup and Installation

3.1 Before you begin



The drive may only be installed if

- the entries on the nameplate of the drive match the voltage supply system,
- the drive is undamaged (no damage caused by transport or storage) and
- it is certain that the following requirements have been fulfilled:
 - **with standard gear units:** ambient temperature between -10 °C and +60 °C, no oil, acid, gas, vapors, radiation, etc.
 - **with special versions:** drive configured in accordance with the ambient conditions.

3.2 Required tools / resources

- Set of spanners
- Torque wrench (+ set of screwdrivers with a long hexagonal driver)
- Mounting device
- Shims and distance rings if necessary
- Fixing devices for input and output elements
- Lubricant (e.g. NOCO[®] fluid)

3.3 Preliminary work

The output shafts and flange surfaces of the motor to be mounted must be thoroughly cleaned of anti-corrosion agents, contamination or such like (use a commercially available solvent). Do not let the solvent come into contact with the sealing lips of the oil seals – danger of damage to the material!

3.4 Installing the gear unit

The gear unit or geared motor may only be mounted or installed in the specified mounting position on a level¹, vibration damping and torsionally rigid support structure. Use plastic inserts (2 – 3 mm thick) if there is a risk of electrochemical corrosion between the gear unit and the driven machine (connection between different metals such as cast iron and high-grade steel)! Also fit the bolts with plastic washers. Ground the housing additionally – use the grounding bolts on the motor.

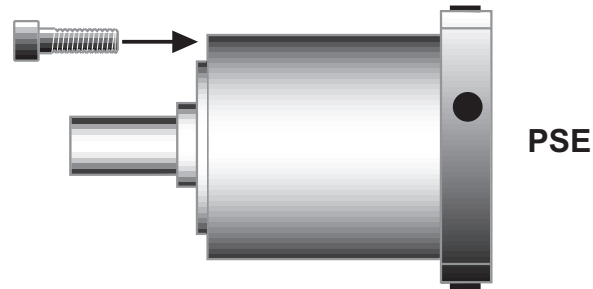
1. Maximum permitted flatness error for flange mounting (approximate values with reference to DIN ISO 1101): with flange 120 – 600 mm max. error 0.2 – 0.5 mm



3.5 Installation in the machine

In contrast to the PSF series, PSE gear units are installed on the existing machine using tapped holes in the gearcase.

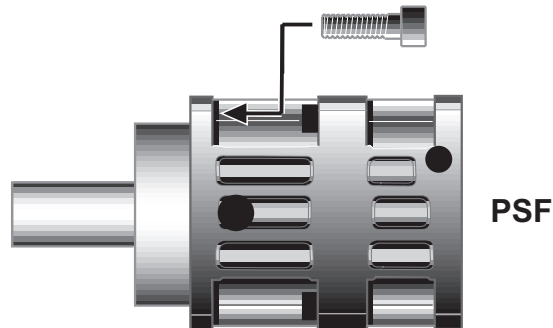
PSE gear unit:
Fit screws from machine side



50219AXX

Fig. 1: Installation of PSE gear unit in the machine

PSF gear unit:
Fit screws from gear unit side



50220AXX

Fig. 2: Installation of PSF gear unit in the machine



3.6 Mounting output elements

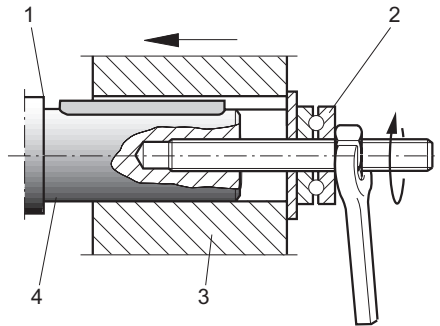
Fig. 3 shows a sample mounting device for installing couplings (3) or hubs onto motor or gear unit shaft extensions (4). It may be possible to dispense with the thrust bearing (2) on the mounting device.



When input and output elements are mounted on **PSF series units**, the **shaft nut** on the input and output shaft **must not be used as a stop** for transmission elements (belt pulley, pinion gear, etc.).



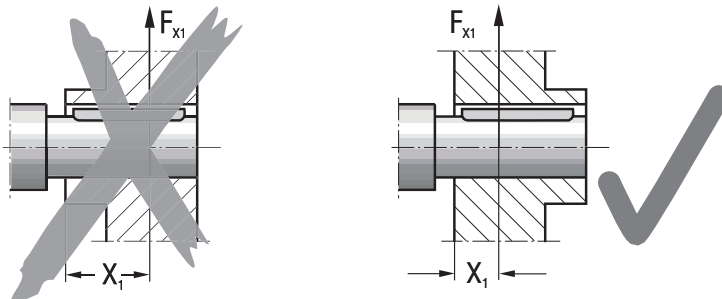
When input and output elements are mounted on **PSE series units**, the **shaft shoulder** (Fig. 3, no. 1) **is allowed** to be used as a **defined stop point**.



50278AXX

Fig. 3: Sample mounting device

Fig. 4 shows the correct mounting arrangement of a gear or sprocket in order to avoid impermissibly high overhung loads.



50279AXX

Fig. 4: Correct mounting arrangement of a gear or sprocket

- Only use a mounting device (see Fig. 3) for installing input and output elements. Use the center bore and the thread on the shaft end for positioning purposes.
- **Never drive belt pulleys, couplings, pinions, etc. onto the shaft end by hitting them with a hammer (damage to bearings, housing and the shaft!).**
- **In the case of belt pulleys, make sure the belt is tensioned correctly (in accordance with the manufacturer's instructions).**
- Transmission elements should be balanced after fitting and must not give rise to any impermissible radial or axial forces (see Fig. 4 / for permitted values, see the "Low Backlash Planetary Gear Units" catalog).





Input and output elements such as belt pulleys, couplings, etc. must have protection against contact!

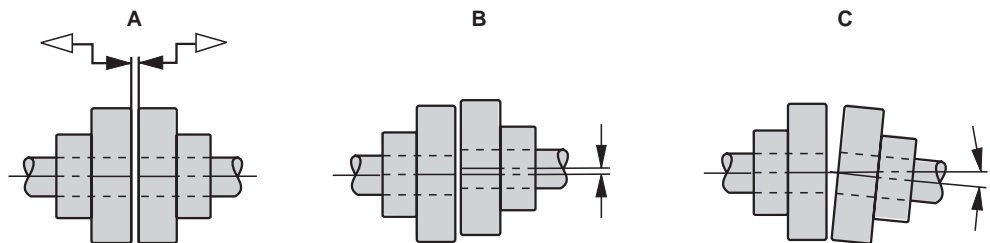


Mounting is easier if you first apply lubricant to the output element or heat it up briefly (to 80 – 100 °C).

Mounting couplings

Couplings must be mounted and balanced according to the information provided by the coupling manufacturer:

- A Maximum and minimum clearance
- B Axial misalignment
- C Angular misalignment



04332AXX

Fig. 5: Maximum and minimum clearance (A), axial misalignment (B), angular misalignment (C)



3.7 Motor mounting with EK coupling

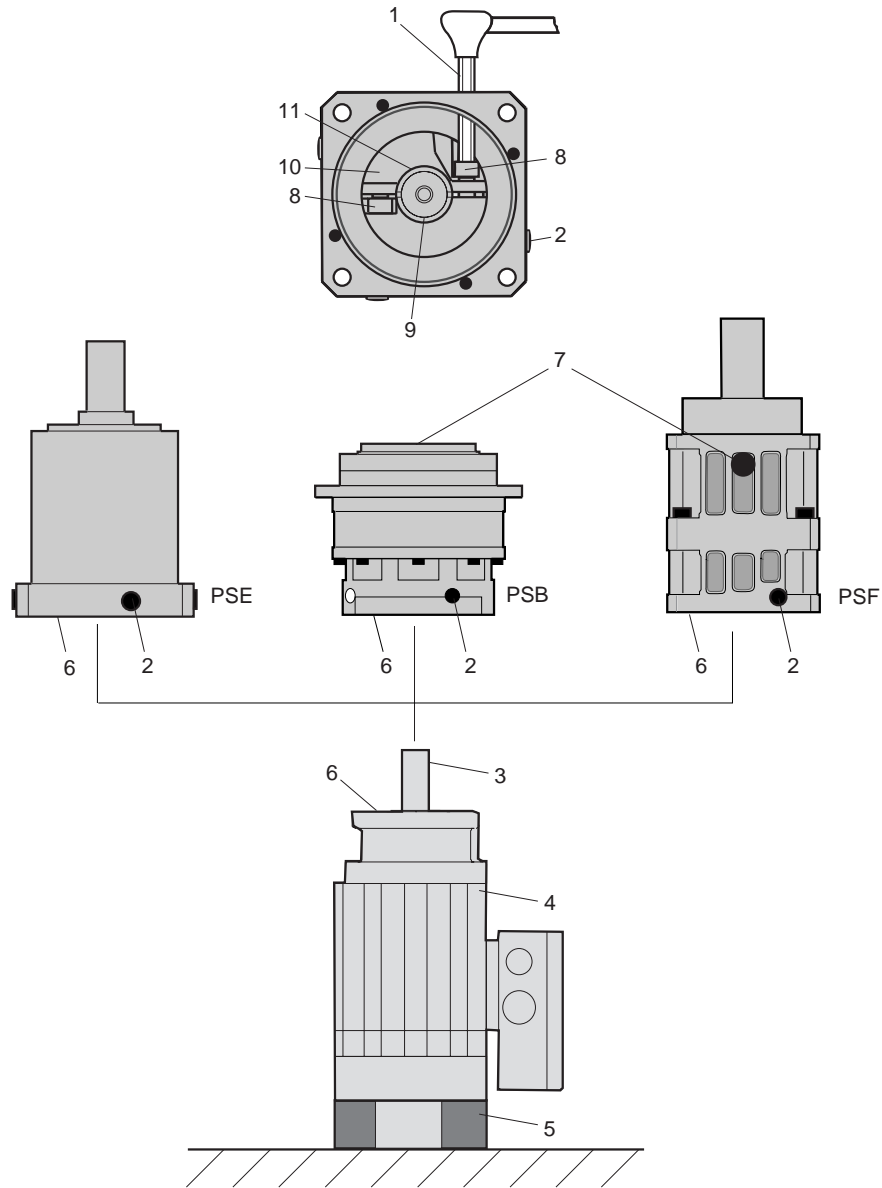


Fig. 6: Motor mounting with EK coupling

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Proceed in this order:

- Place **motor (4) vertically** (motor must have min. true-running accuracy to EN 42955). Use ring (5) to protect the encoder and other mounted components.
- Check smooth surfaces (6) of the motor and gear unit for scoring and smoothen them if necessary. Clean and degrease the hollow shaft hole in coupling (11) and motor shaft (3).
- Remove one or two of the four closing plugs (2). Turn the coupling (11) with clamping ring (10) until the bolt head of clamping bolt(s) (8) is in alignment with the mounting hole in the built-on housing. Unscrew the clamping bolt(s) (8). **Motors with a keyway:** Turn the keyway 90° offset in relation to the slot in the coupling.



All gear units only have one clamping bolt (8) except for types PSF/PSE 21. and PSF/PSB/PSE 31. with motor shaft diameter ≤ 14 mm.

- If coupling sleeves (9) are used, make sure that the slots in the coupling sleeve (9) are in alignment with the slots in the coupling (11) and clamping ring (10). Carefully slide the gear unit onto the motor shaft (3).



Never drive gear units, couplings, etc. onto the shaft end by hitting them with a hammer (damage to bearings, housing and the shaft).

- Insert bolts between the gear unit and motor and push their heads up to the hole. Make sure the three oil screw plugs (7) can be accessed later. The oil screw plugs are located on the top and bottom of the gear unit and on one side.



Gear unit types PSE, PSF 21. and PSF 31. do not have any oil screw plugs. Gear unit type PSB has one oil screw plug (7) in the center of the flange block.

- Use a torque wrench (1) to tighten the clamping bolt(s) (8) to the prescribed tightening torque.

Gear unit type	Motor shaft diameter [mm]	Number of clamping bolts	Tightening torque of clamping bolt [Nm]	Wrench size
PSF 21./31. PSB 31. PSE 21./31.	≤ 14	2	14	5
PSF 21./31. PSB 31. PSE 21./31.	> 14	1	41	6
PSF 41. - PSF 90. PSB 41. - PSB 61. PSE 41. - PSE 61.	≤ 32	1	41	6
PSF 41./51./61./70./80./90. PSB 41./51./61. PSE 41./51./61.	> 32	1	83	8

- Center the gear unit on the coupling. To do this, unscrew the retaining screws and then retighten in diametrically opposite sequence. Put the plug (2) back in.



4 Startup

4.1 *Starting operation of low backlash planetary gear units*

Check the direction of rotation is correct in decoupled status (also listen out for unusual grinding noises as the shaft rotates).



Secure the shaft keys for test mode without drive components. Do not render monitoring and protection equipment inoperative even for test mode.

Switch off the geared motor if in doubt whenever changes occur in relation to normal operation (e.g. increased temperature, noise, vibration). Determine the cause; contact SEW if necessary.



5 Operation and Servicing

5.1 Troubleshooting

Malfunction	Possible cause	Solution
Unusual, regular running noise	<ul style="list-style-type: none"> Meshing/grinding noise: Bearing damage Knocking noise: Irregularity in the gearing 	Contact customer service
Oil leaking	Seal defective	Contact customer service

If you require assistance from our customer service staff, please state the following:

- Data on the nameplate
- Type and extent of the fault
- Time and peripheral circumstances of the fault
- Presumed cause

5.2 Inspection and maintenance

PSF/PSB/PSE gear units have lubrication for life. There is no need to change the lubricant.



Do not mix the factory-fill lubricant with other lubricants.

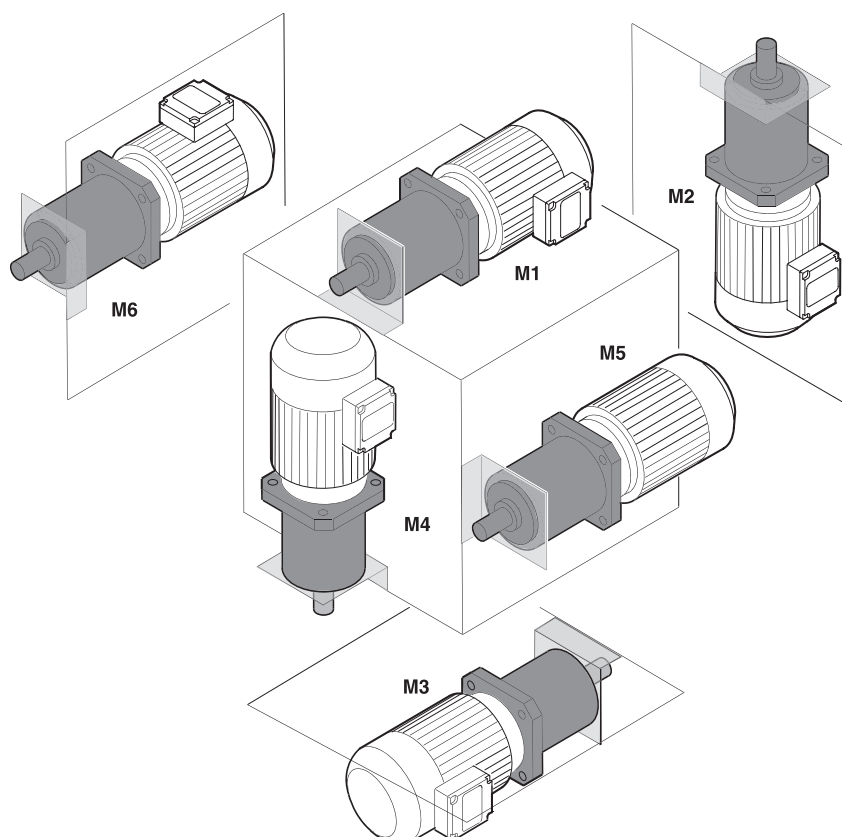
Inspection and maintenance periods

Look and check the unit for leaks at regular intervals. Please contact our customer service if you discover a leak.

6 Mounting Positions

6.1 General information about mounting positions

In the case of planetary gear units, SEW distinguishes between mounting positions M1 to M6. The following figure shows the spatial orientation of the gear unit in mounting positions M1 to M6.



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Fig. 7: Representation of mounting positions M1 to M6 for low backlash planetary gear units

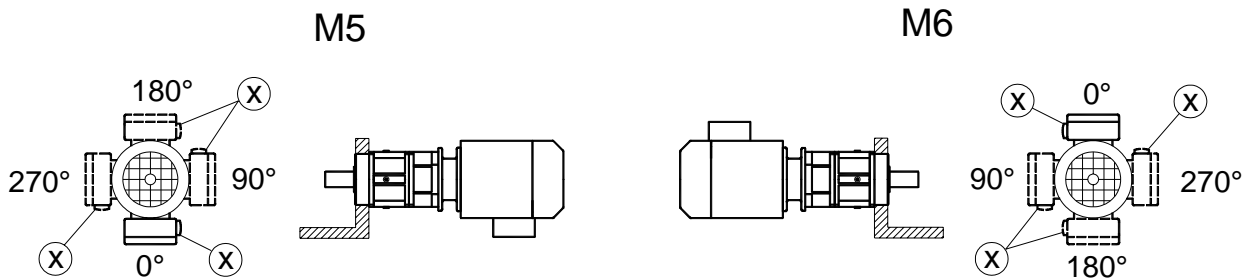
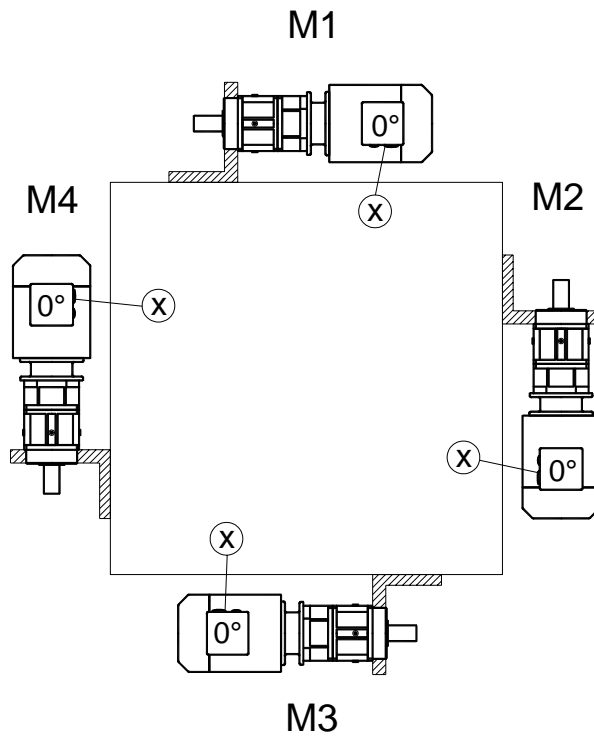
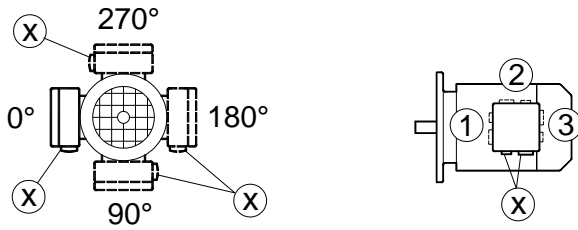
Symbols used




The following table shows which symbols are used in the mounting position sheets and what they mean:

Symbol	Meaning
	No breather valve
	No oil level plug
	No oil drain plug

6.2 PSF211 – PSF902

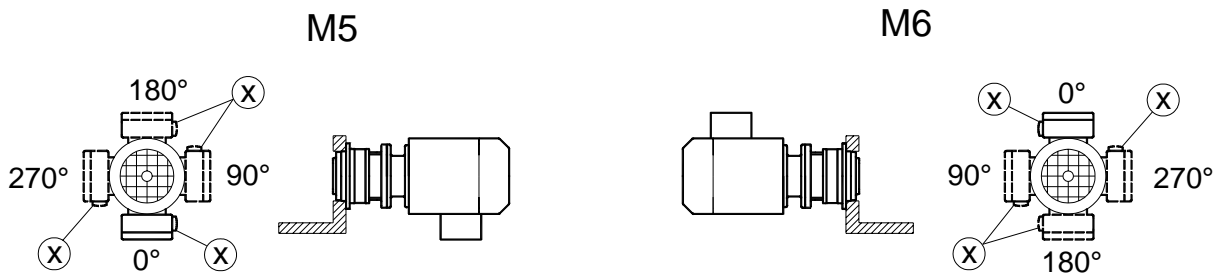
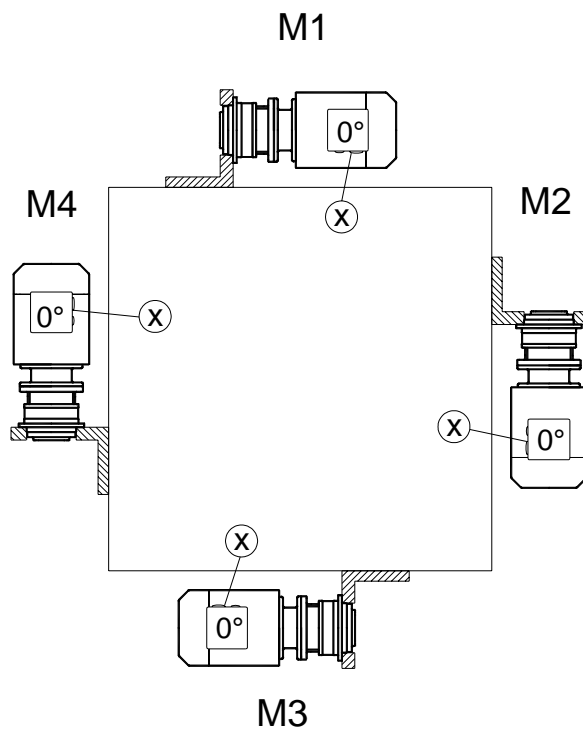
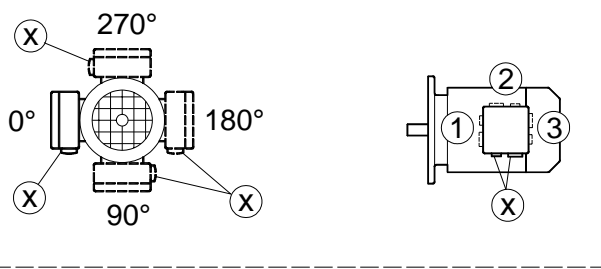
44 001 000






-  M1 - M6
-  M1 - M6
-  M1 - M6

6.3 PSB311 – PSB612

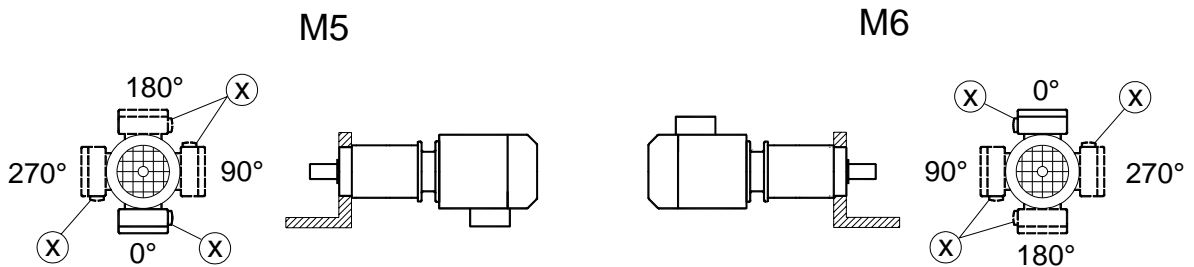
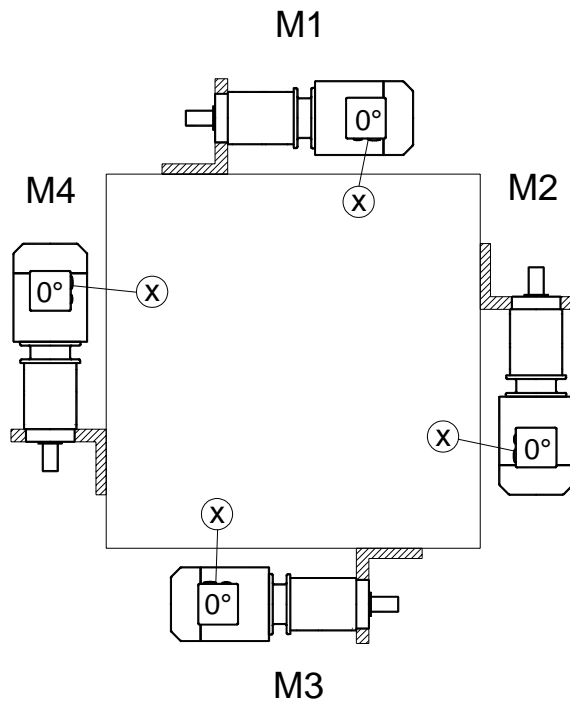
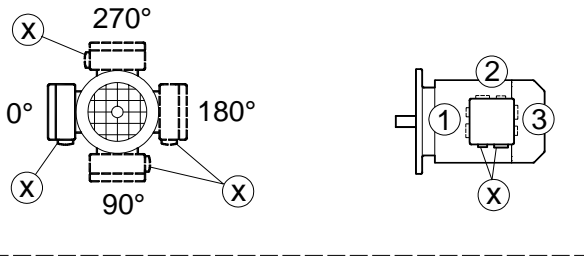
44 002 000






-  M1 - M6
-  M1 - M6
-  M1 - M6

6.4 PSE211 – PSE612

44 001 001



-  M1 - M6
-  M1 - M6
-  M1 - M6



Addresses

Germany			
Headquarters Production Sales Service	Bruchsal	SEW-EURODRIVE GmbH & Co Ernst-Blickle-Straße 42 D-76646 Bruchsal P.O. Box Postfach 3023 · D-76642 Bruchsal	Tel. (0 72 51) 75-0 Fax (0 72 51) 75-19 70 http://www.SEW-EURODRIVE.de sew@sew-eurodrive.de
Production	Graben	SEW-EURODRIVE GmbH & Co Ernst-Blickle-Straße 1 D-76676 Graben-Neudorf P.O. Box Postfach 1220 · D-76671 Graben-Neudorf	Tel. (0 72 51) 75-0 Fax (0 72 51) 75-29 70 Telex 7 822 276
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	Kirchheim (near München)	SEW-EURODRIVE GmbH & Co Domagkstraße 5 D-85551 Kirchheim	Tel. (0 89) 90 95 52-10 Fax (0 89) 90 95 52-50
	Langenfeld (near Düsseldorf)	SEW-EURODRIVE GmbH & Co Siemensstraße 1 D-40764 Langenfeld	Tel. (0 21 73) 85 07-30 Fax (0 21 73) 85 07-55
	Meerane (near Zwickau)	SEW-EURODRIVE GmbH & Co Dänkritzer Weg 1 D-08393 Meerane	Tel. (0 37 64) 76 06-0 Fax (0 37 64) 76 06-30
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	Paris	SEW-USOCOME SAS Zone industrielle 2, rue Denis Papin F-77390 Verneuil l'Etang	Tel. 01 64 42 40 80 Fax 01 64 42 40 88
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	Christchurch	SEW-EURODRIVE NEW ZEALAND LTD. 10 Settlers Crescent, Ferrymead Christchurch	Tel. (09) 3 84 62 51 Fax (09) 3 84 64 55 sales@sew-eurodrive.co.nz
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Sales	Lodz	SEW-EURODRIVE Polska Sp.z.o.o. ul. Pojezierska 63 91-338 Lodz	Tel. (042) 6 16 22 00 Fax (042) 6 16 22 10 sew@sew-eurodrive.pl
Portugal			
Assembly Sales Service	Coimbra	SEW-EURODRIVE, LDA. Apartado 15 P-3050-901 Mealhada	Tel. (0231) 20 96 70 Fax (0231) 20 36 85 infosew@sew-eurodrive.pt
Romania			
Sales Service	Bucuresti	Sialco Trading SRL str. Madrid nr.4 71222 Bucuresti	Tel. (01) 2 30 13 28 Fax (01) 2 30 71 70 sialco@mediasat.ro
Russia			
Sales	St. Petersburg	ZAO SEW-EURODRIVE P.O. Box 193 193015 St. Petersburg	Tel. (812) 3 26 09 41 + 5 35 04 30 Fax (812) 5 35 22 87 sewrus@post.spbnit.ru
Singapore			
Assembly Sales Service		SEW-EURODRIVE PTE. LTD. No 9, Tuas Drive 2 Jurong Industrial Estate Singapore 638644	Tel. 8 62 17 01-705 Fax 8 61 28 27 Telex 38 659
Slovenia			
Sales Service	Celje	Pakman - Pogonska Tehnika d.o.o. Ul. XIV. divizije 14 SLO – 3000 Celje	Tel. 00386 3 490 83 20 Fax 00386 3 490 83 21 pakman@siol.net



Address list

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Assembly Sales Service	Johannesburg	SEW-EURODRIVE (PROPRIETARY) LIMITED Eurodrive House Cnr. Adcock Ingram and Aerodrome Roads Aeroton Ext. 2 Johannesburg 2013 P.O.Box 90004 Bertsham 2013	Tel. + 27 11 248 70 00 Fax +27 11 494 23 11
	Capetown	SEW-EURODRIVE (PROPRIETARY) LIMITED Rainbow Park Cnr. Racecourse & Omuramba Road Montague Gardens Cape Town P.O.Box 36556 Chempet 7442 Cape Town	Tel. +27 21 552 98 20 Fax +27 21 552 98 30 Telex 576 062
	Durban	SEW-EURODRIVE (PROPRIETARY) LIMITED 2 Monaceo Place Pinetown Durban P.O. Box 10433, Ashwood 3605	Tel. +27 31 700 34 51 Fax +27 31 700 38 47
Spain			
Assembly Sales Service	Bilbao	SEW-EURODRIVE ESPAÑA, S.L. Parque Tecnológico, Edificio, 302 E-48170 Zamudio (Vizcaya)	Tel. 9 44 31 84 70 Fax 9 44 31 84 71 sew.spain@sew-eurodrive.es
Sweden			
Assembly Sales Service	Jönköping	SEW-EURODRIVE AB Gnejsvägen 6-8 S-55303 Jönköping Box 3100 S-55003 Jönköping	Tel. (036) 34 42 00 Fax (036) 34 42 80 www.sew-eurodrive.se
Switzerland			
Assembly Sales Service	Basel	Alfred Imhof A.G. Jurastrasse 10 CH-4142 Münchenstein bei Basel	Tel. (061) 4 17 17 17 Fax (061) 4 17 17 00 http://www.imhof-sew.ch info@imhof-sew.ch
Thailand			
Assembly Sales Service	Chon Buri	SEW-EURODRIVE (Thailand) Ltd. Bangpakong Industrial Park 2 700/456, Moo.7, Tambol Donhuaroh Muang District Chon Buri 20000	Tel. 0066-38 21 40 22 Fax 0066-38 21 45 31
Turkey			
Assembly Sales Service	Istanbul	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti Bagdat Cad. Koruma Cikmazi No. 3 TR-81540 Maltepe ISTANBUL	Tel. (0216) 4 41 91 63 + 4 41 91 64 + 3 83 80 14 + 3 83 80 15 Fax (0216) 3 05 58 67 seweurodrive@superonline.com.tr
USA			
Production Assembly Sales Service	Greenville	SEW-EURODRIVE INC. 1295 Old Spartanburg Highway P.O. Box 518 Lyman, S.C. 29365	Tel. (864) 4 39 75 37 Fax Sales (864) 439-78 30 Fax Manuf. (864) 4 39-99 48 Fax Ass. (864) 4 39-05 66 Telex 805 550
	San Francisco	SEW-EURODRIVE INC. 30599 San Antonio St. Hayward, California 94544-7101	Tel. (510) 4 87-35 60 Fax (510) 4 87-63 81
	Philadelphia/PA	SEW-EURODRIVE INC. Pureland Ind. Complex 200 High Hill Road, P.O. Box 481 Bridgeport, New Jersey 08014	Tel. (856) 4 67-22 77 Fax (856) 8 45-31 79
	Dayton	SEW-EURODRIVE INC. 2001 West Main Street Troy, Ohio 45373	Tel. (9 37) 3 35-00 36 Fax (9 37) 4 40-37 99
	Dallas	SEW-EURODRIVE INC. 3950 Platinum Way Dallas, Texas 75237	Tel. (214) 3 30-48 24 Fax (214) 3 30-47 24



USA			
Additional addresses for service in the USA provided on request!			
Venezuela			
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