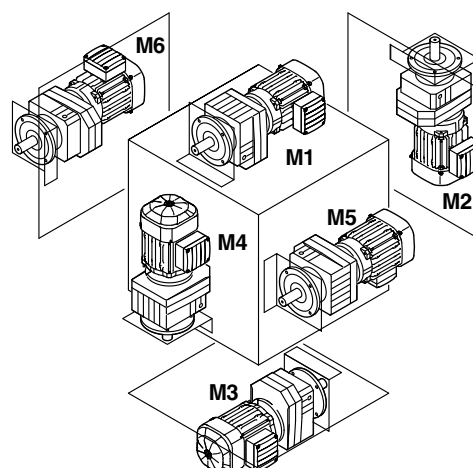
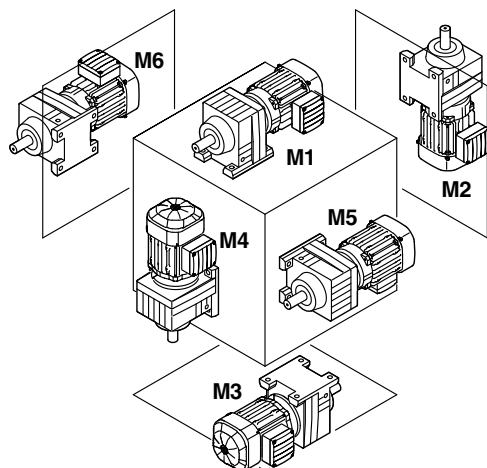


## 5 Mounting Positions

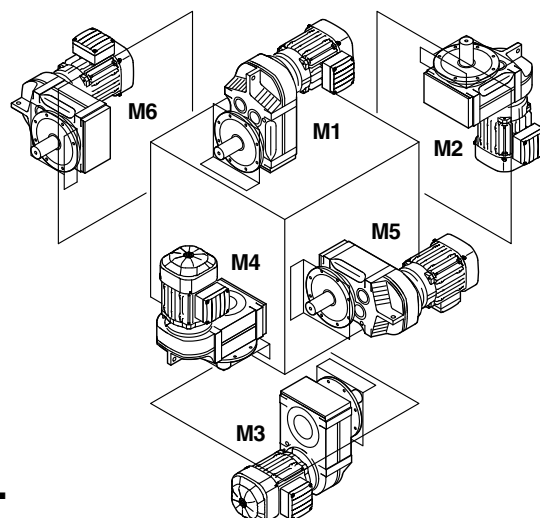
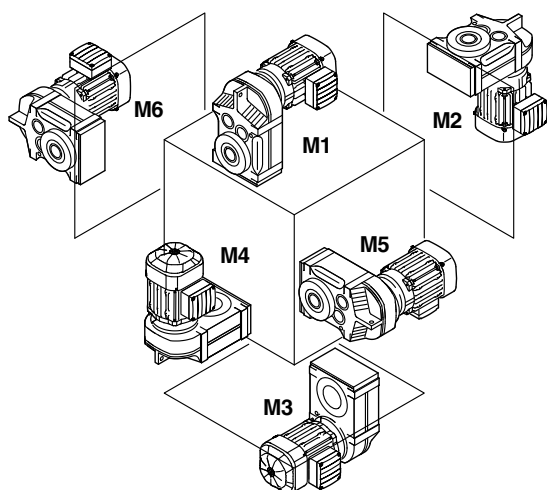
### 5.1 General information on the mounting positions

SEW-EURODRIVE distinguishes between the six gear unit mounting positions M1 to M6. The following figure shows the position of the gear unit in mounting positions M1 to M6:

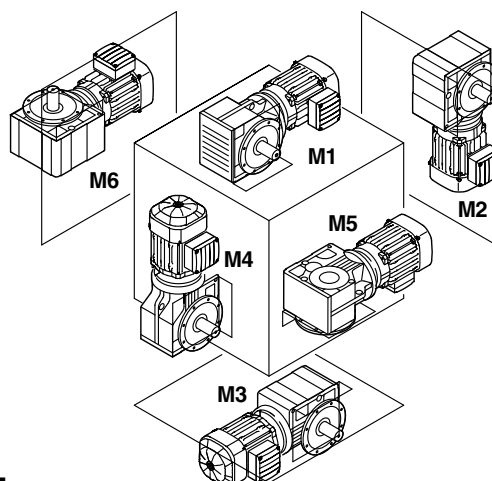
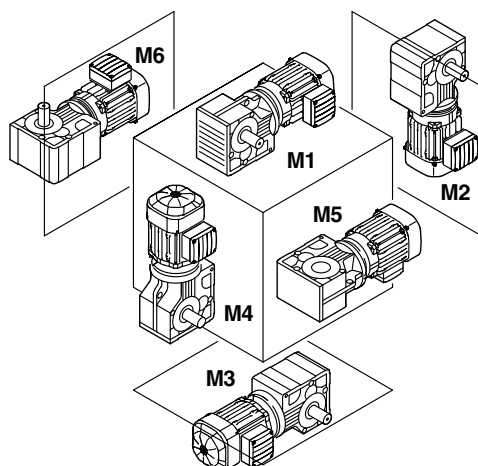
65873axx



R..



F..



K..  
S..  
W..

## 5.2 Order information for gear units

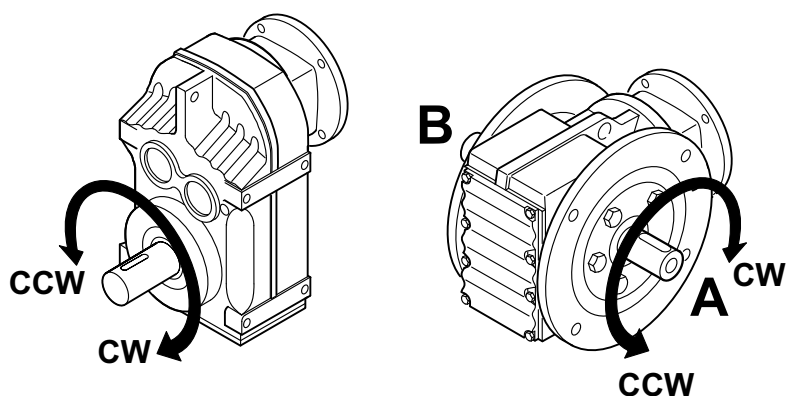


### INFORMATION

The following order information is required in addition to the mounting position for R, F, K, S and W gear units to enable the configuration of the drive to be defined exactly.

#### Direction of rotation of the output shaft

When ordering a gear unit with adapter and optional backstop and/or input shaft assembly, it is necessary to indicate the direction of rotation of the output shaft/output side. The direction of rotation is given looking onto the output shaft/output end of the gear unit. For drives with shaft ends at sides A and B, the direction of rotation must be specified as looking onto side A.



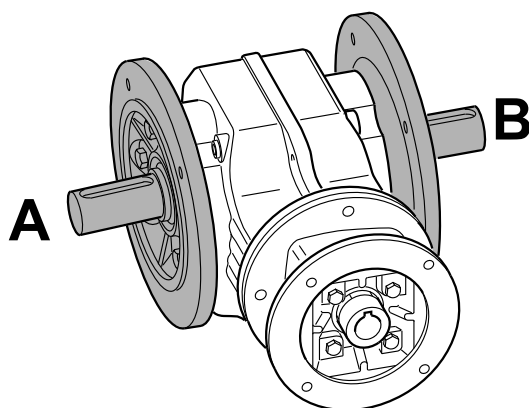
50290AXX

As viewed at the output shaft: Clockwise (CW) = Rotating clockwise  
Counterclockwise (CCW) = Rotating counterclockwise

#### Position of the output shaft and output flange

In right-angle gear units, you also have to indicate the position of the output shaft and the output flange:

- A or B or AB

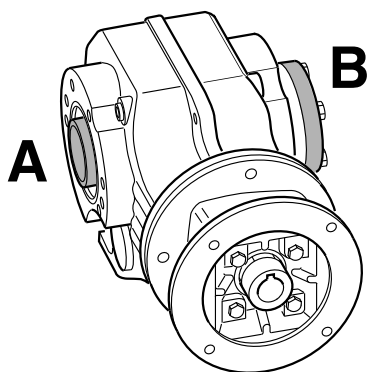


50296AXX

**Position of output end in right-angle gear units**

In shaft mounted right-angle gear units with a shrink disk, you also have to indicate whether the A or B end is the output end. In the figure below, the A end is the output end. The shrink disk is located opposite the output end, here on the B side.

In shaft mounted right-angle gear units, the output end is equivalent to the shaft position of right-angle gear units with solid shaft.



50297axx

5



**INFORMATION**

You find the permitted mounting surfaces (= hatched areas) in the mounting position sheets (page 76 and subsequent pages).

**Example:** Only the mounting surface at the bottom is possible with helical-bevel gear units K167/K187 in mounting positions M5 and M6.


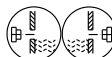


**Sample order**

Type (Examples)	Mounting position	Shaft position	Flange position	Output end	Shrink disk position	Direction of rotation of output
K47../RS	M2	A	-	-	-	CW
SF77	M6	AB	AB	-	-	-
KA97	M4	-	-	B	-	-
KH107	M1	-	-	A	B	-

### 5.3 Key to the mounting position sheets

#### Symbols used

The following table shows the symbols used in the mounting position sheets and their meaning:

Symbol	Meaning
	Breather valve
	Oil level plug <sup>1)</sup>
	Oil drain plug
	Cable entry position "3"

1) Does not apply to the first gear unit (larger gear unit) of multi-stage gear units



#### INFORMATION

##### Notes on the shafts illustrated on the mounting position sheets.

Observe the following information regarding the illustrations on the mounting position sheets:

- **For gear units with solid shaft:** The displayed shaft is always on the A end.
- **For shaft-mounted gear units:** The shaft with dashed lines represents the customer shaft. The output end (= shaft position) is always shown on the A end.



#### INFORMATION

SPIROPLAN® gear units are not dependant on the mounting position, except for W..37 and W47 in mounting position M4. However, mounting positions M1 to M6 are also shown for SPIROPLAN® gear units to assist you in working with this documentation.

##### Important! Please note:

SPIROPLAN® gear units W..10 to W..30 cannot be equipped with breather valves, neither with oil level plugs or drain plugs.

SPIROPLAN® gear units W..37 and W..47 can be equipped with breather valves in mounting position M4 and with oil drain plugs in mounting position M2.



#### INFORMATION

Some gear units can be supplied in mounting position M0. In this case, the gear unit will be delivered in a universal mounting position. The customer can then adjust it to the specific mounting position. Please contact SEW-EURODRIVE if you have any questions.



**INFORMATION**

**Notes on the depicted motors.**

Motors are only represented symbolically on the mounting position sheets.

**Churning losses**

\* → page XX

Churning losses may occur in some mounting positions. Contact SEW-EURODRIVE in case of the following combinations:

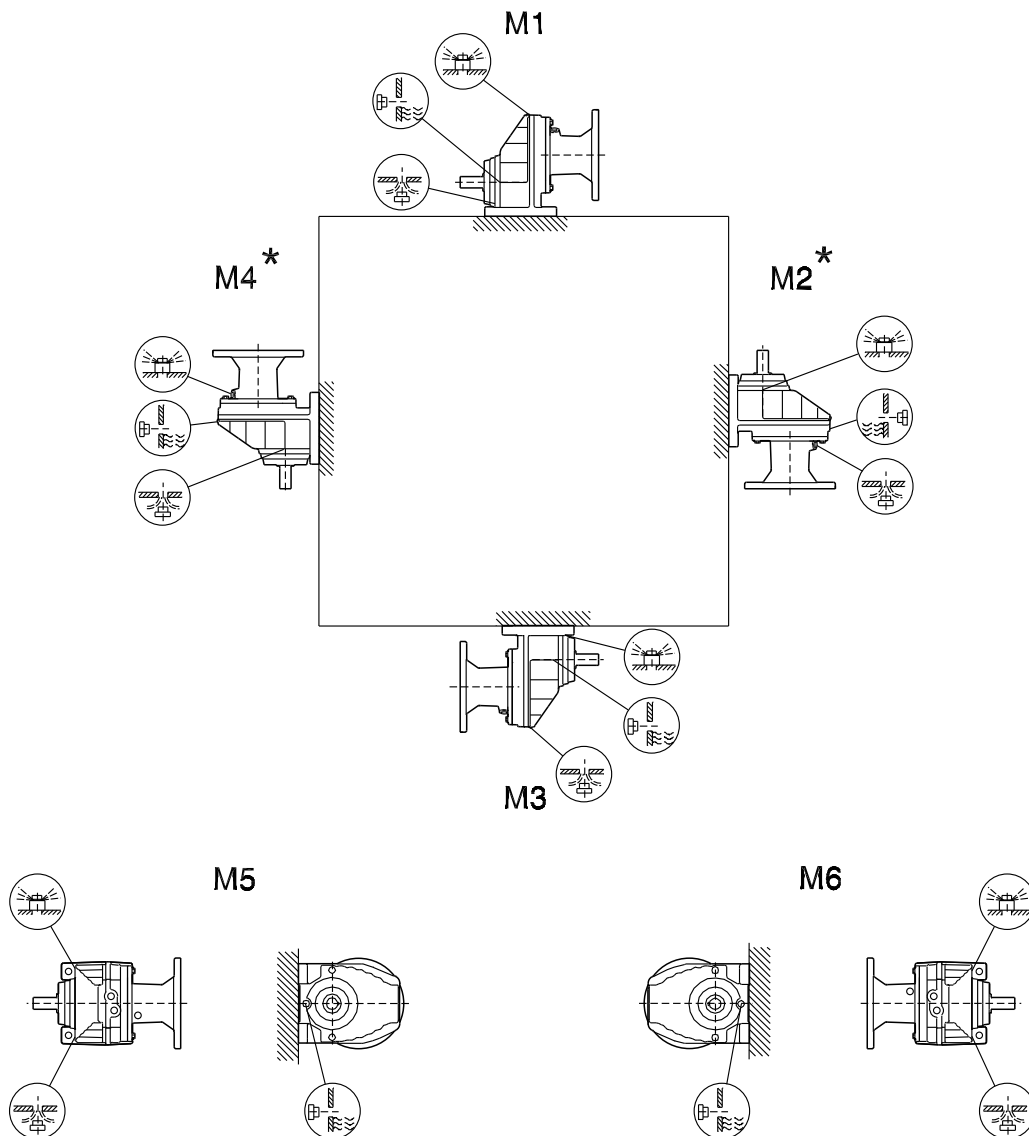
**5**

Mounting position	Gear unit type	Gear unit size	Input speed [rpm]
<b>M2, M4</b>	R	97 ... 107	> 2500
		> 107	>1500
<b>M2, M3, M4, M5, M6</b>	F	97 ... 107	> 2500
		> 107	> 1500
	K	77 ... 107	> 2500
		> 107	> 1500
	S	77 ... 97	> 2500

**5.4 Mounting positions of helical gear units**

RX57-RX107

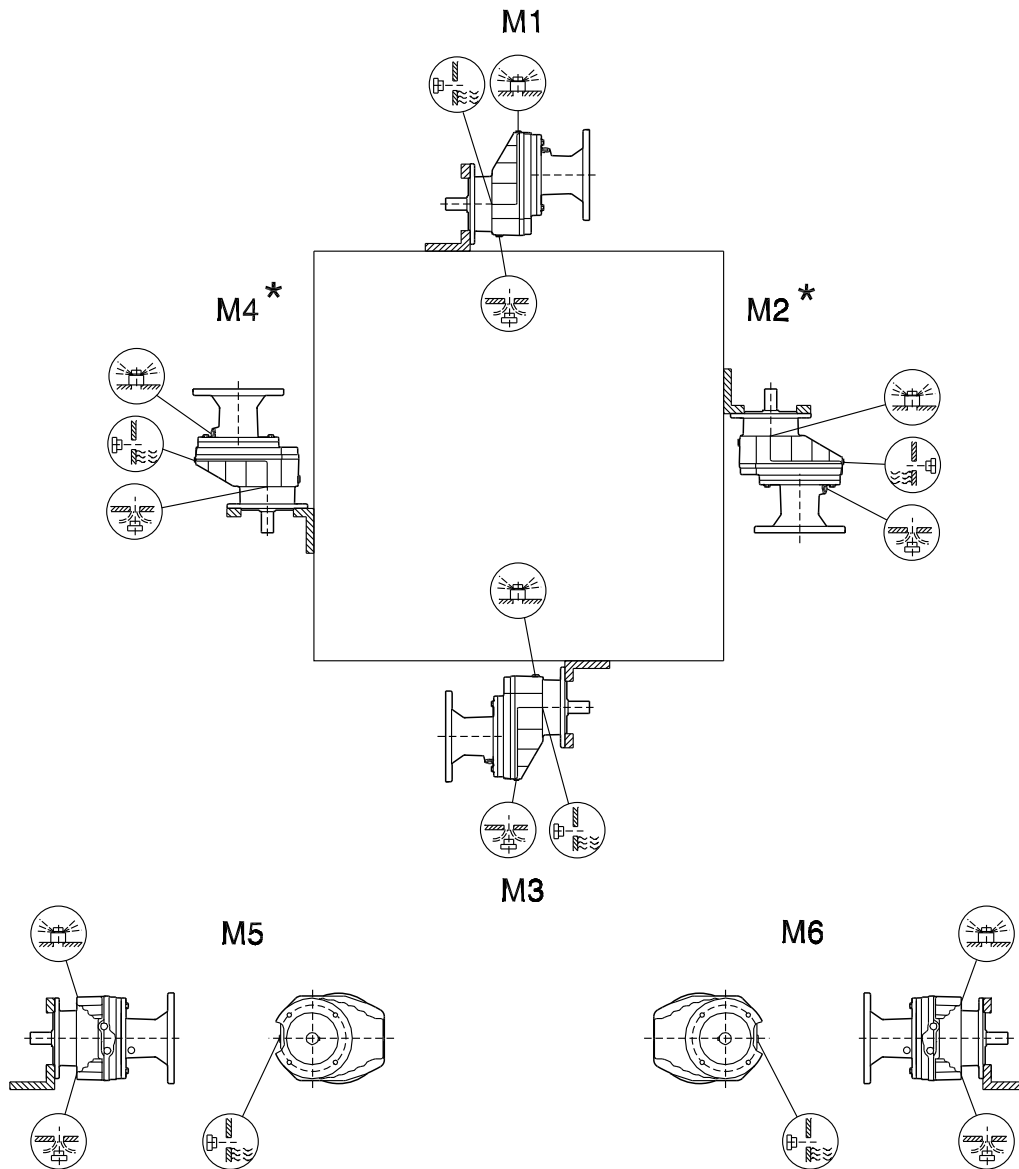
01 001 00 10



* → page 75
-------------

RXF57-RXF107

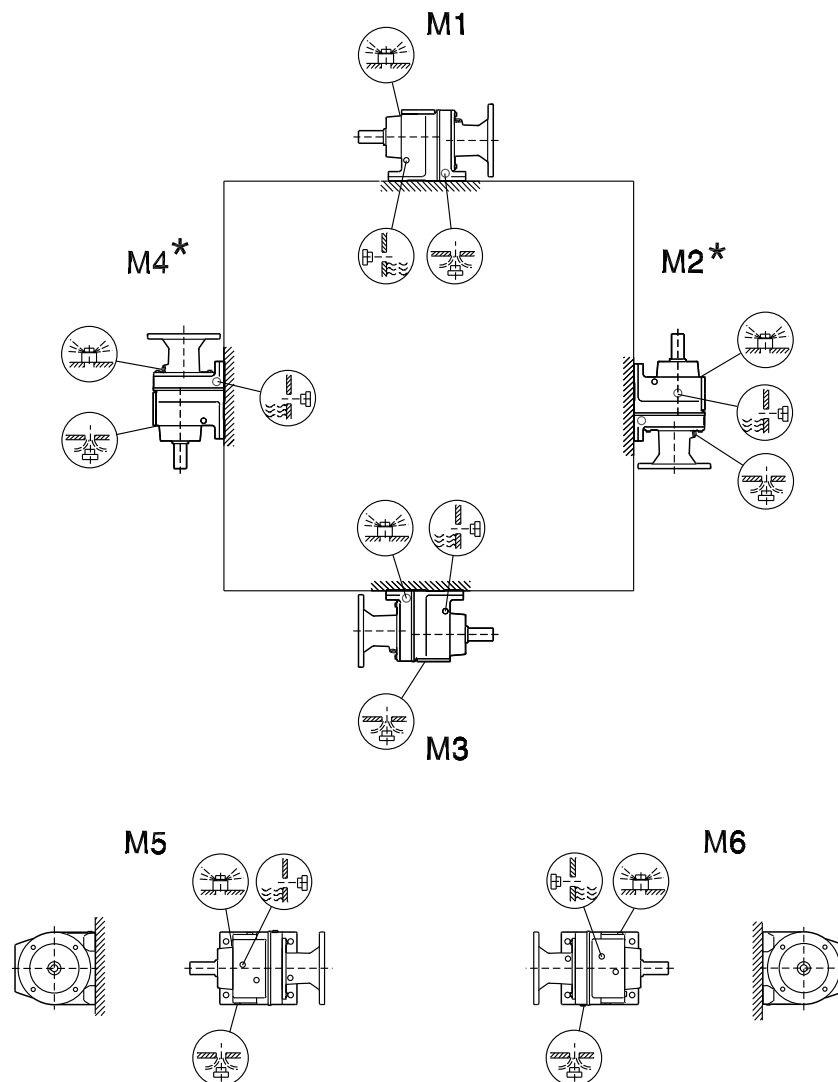
01 002 00 10



\* → page 75

R27-R167

01 003 00 10



R27  M1, M3, M5, M6

R27  

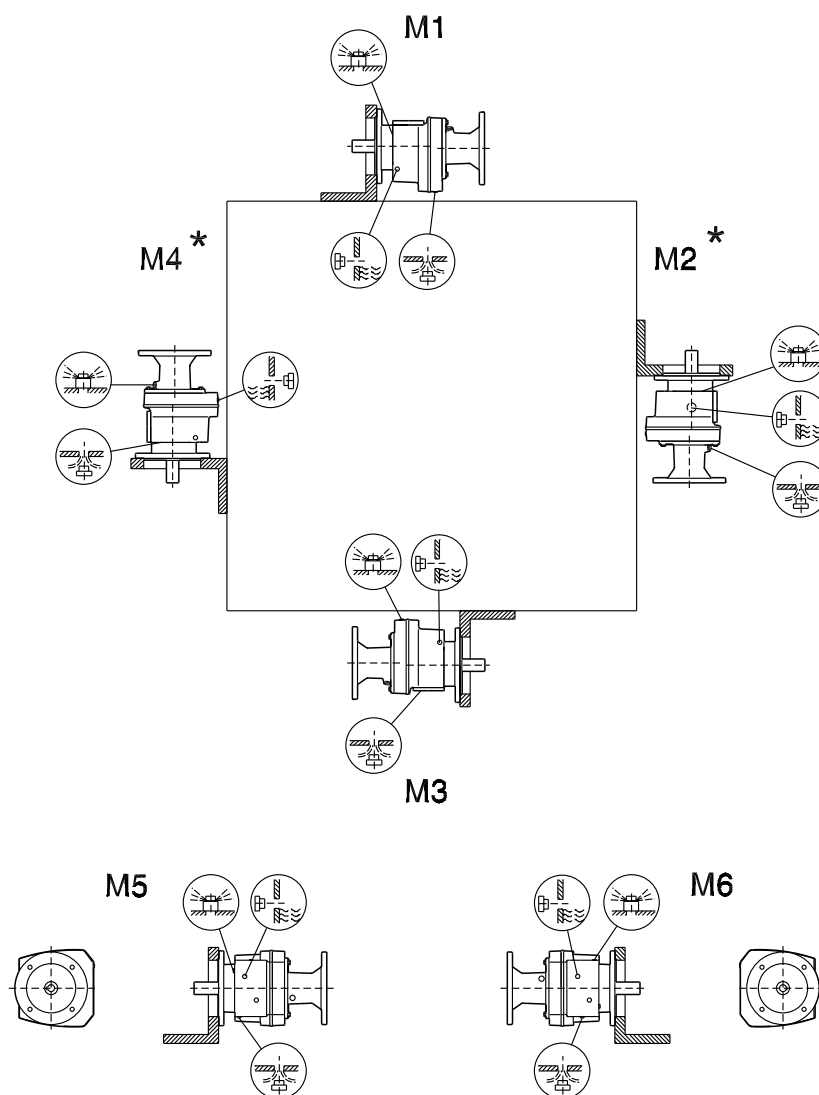
R47, R57  M5





\* → page 75



RF27-RF167, RZ27-87

01 004 00 10

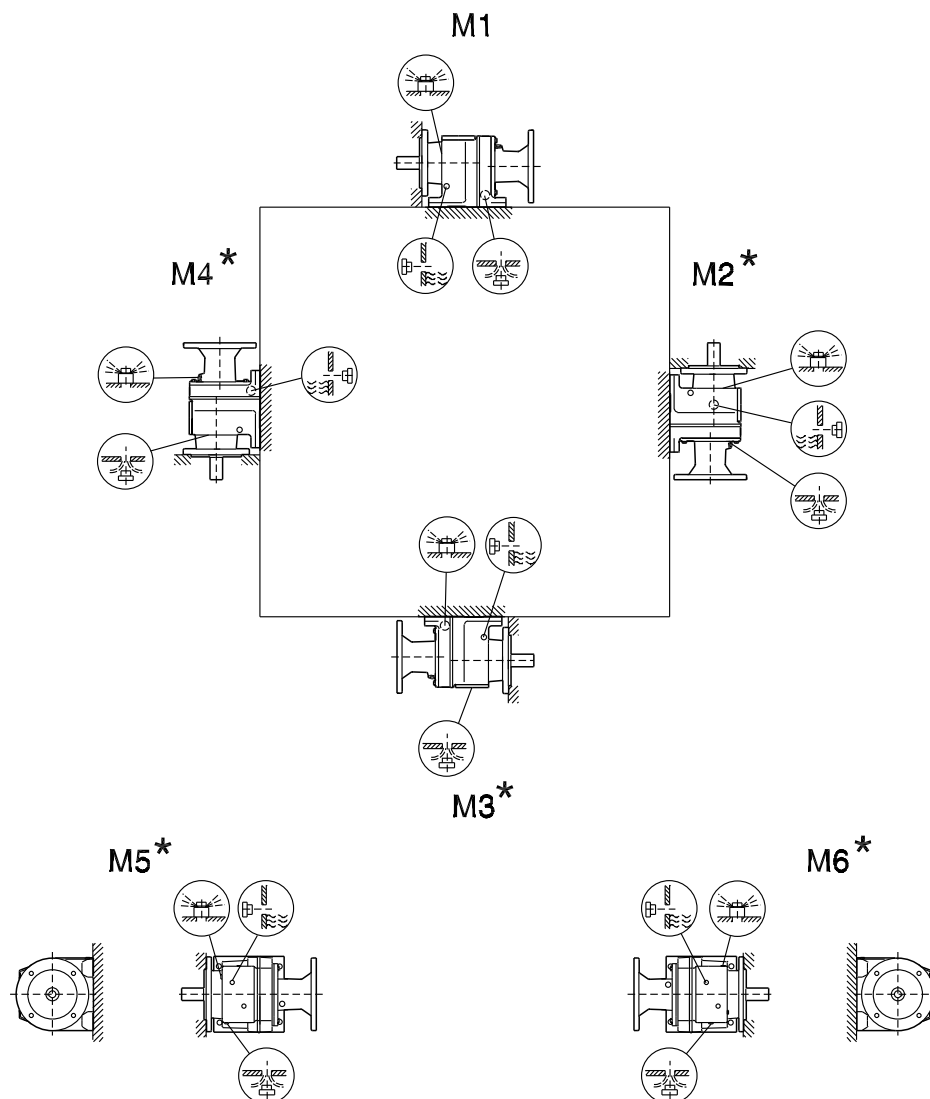


RF/RZ27		M1, M3, M5, M6
RF/RZ27	 	
RF/RZ47, 57		M5

\* → page 75

R27F-R87F

01 005 00 10




R27F  M1, M3, M5, M6

R27F  

R47F, R57F  M5

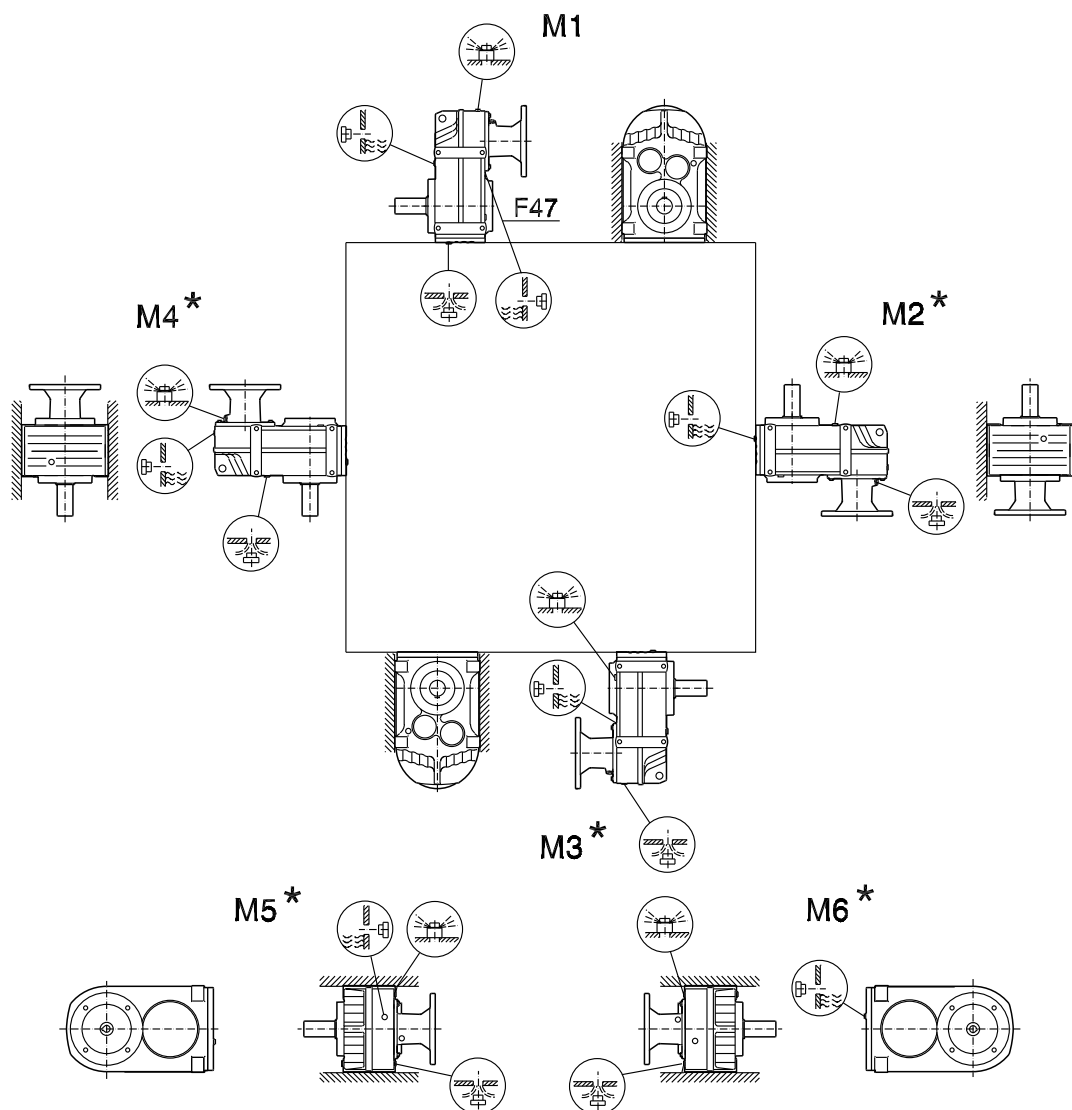
\* → page 75

**Important:** See the  information in the "Gearmotors" catalog, chapter. "Project Planning for Gear Units/Overhung and axial loads" (page 34).

## 5.5 Mounting positions of parallel shaft helical gear units

F/FA..B/FH27B-157B, FV27B-107B

42 002 00 10



F..27 M1, M3, M5, M6

F..27 M1 - M6

F..27 M1, M3, M5, M6

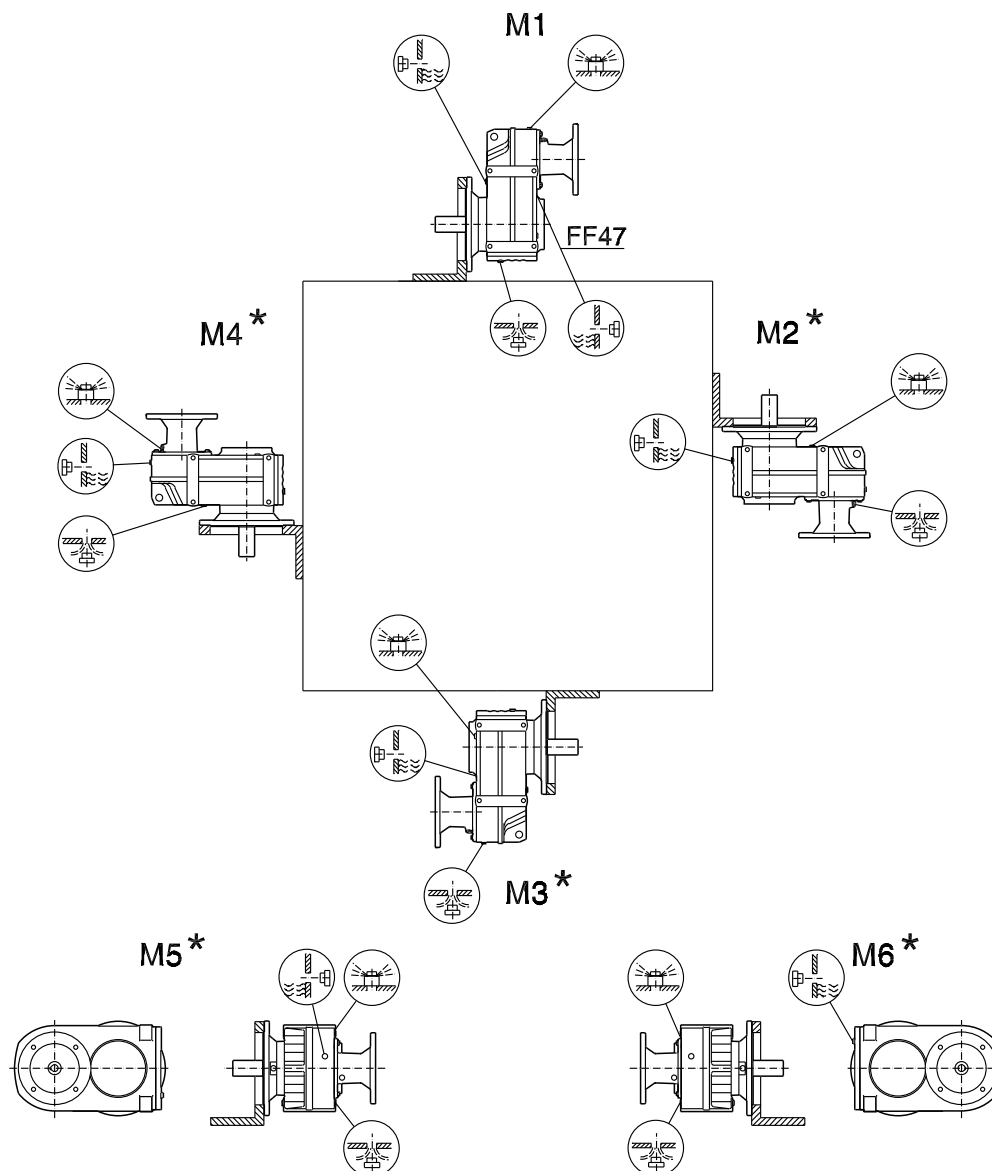


\* → page 75

**Mounting Positions**

Mounting positions of parallel shaft helical gear units

FF/FAF/FHF/FAZ/FHZ27-157, FVF/FVZ27-107

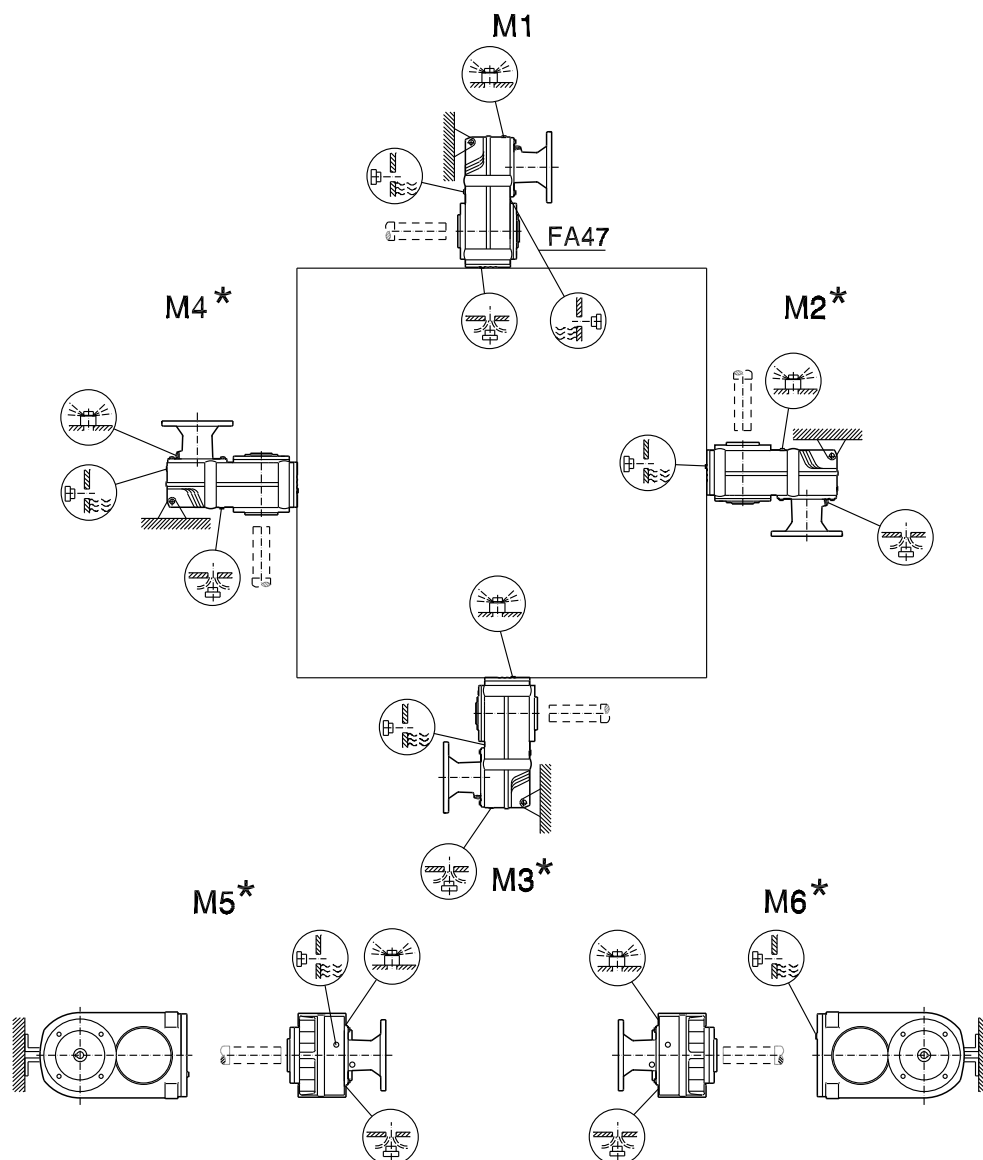
42 003 00 10


F..27  M1, M3, M5, M6F..27  M1 - M6F..27  M1, M3, M5, M6

\* → page 75


FA/FH27-157, FV27-107, FT37-97

42 004 00 10

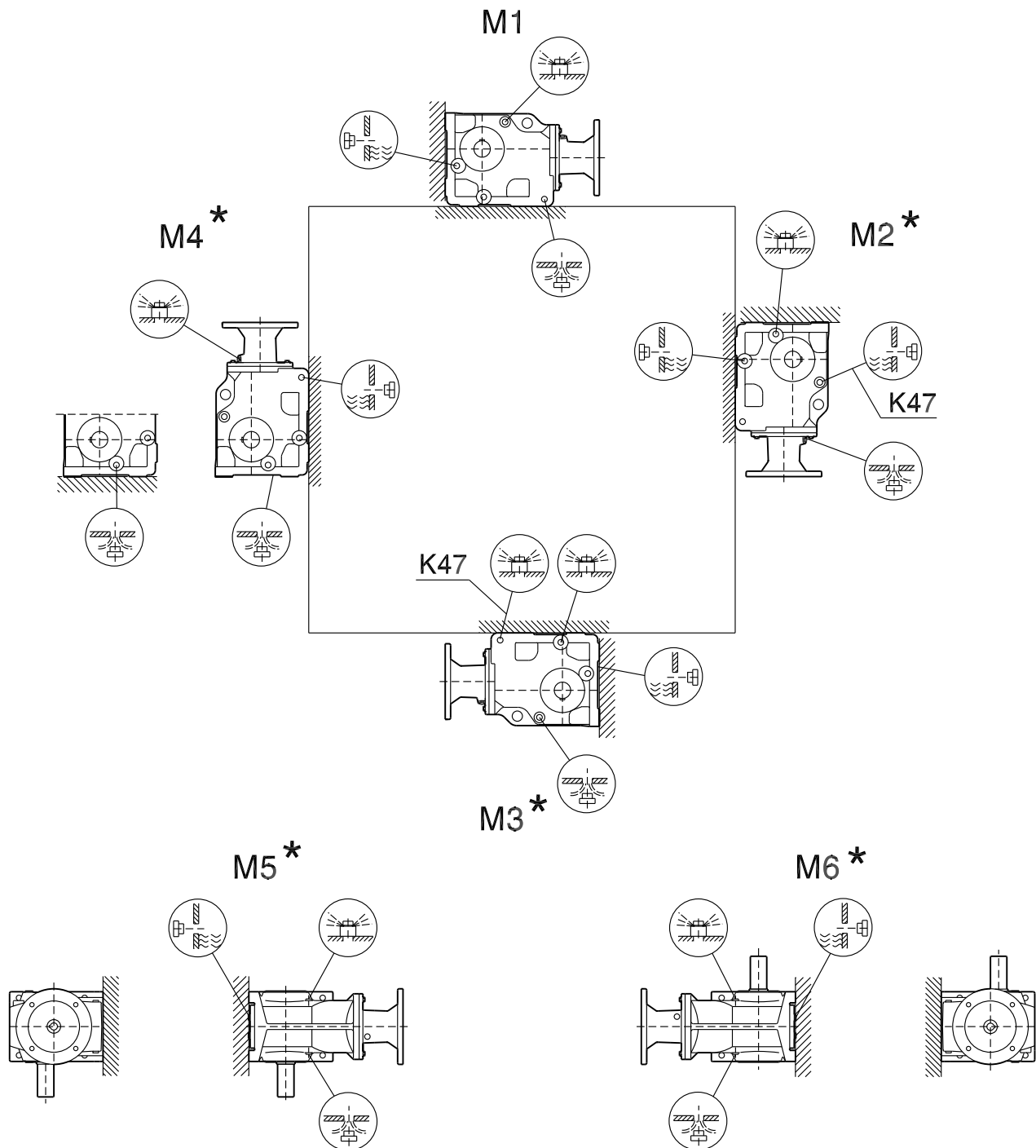


F..27  M1, M3, M5, M6


F..27  M1 - M6

F..27  M1, M3, M5, M6

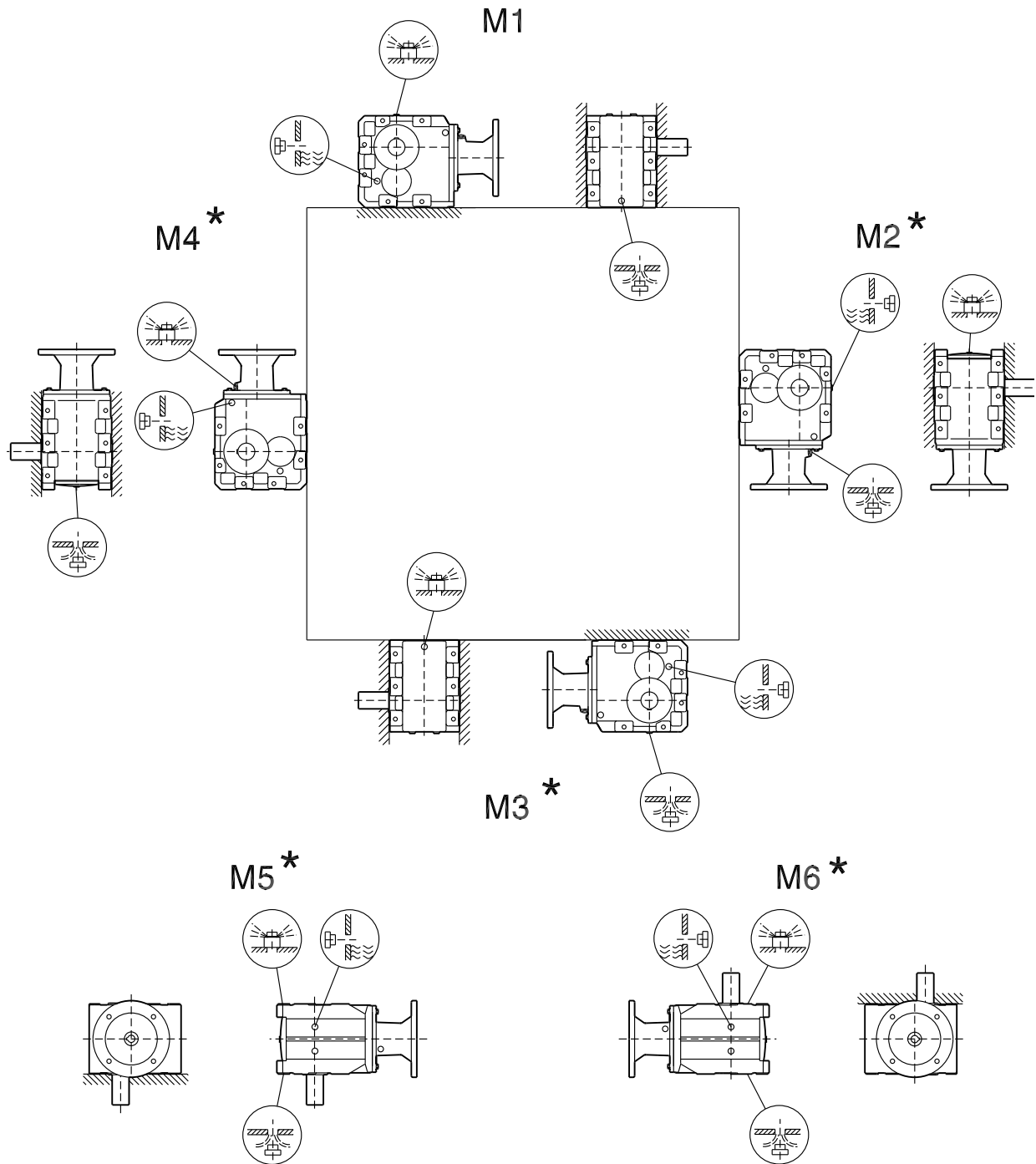
\* → page 75

**5.6 Mounting positions of helical-bevel gearmotors****K/KA..B/KH37B-157B, KV37B-107B**

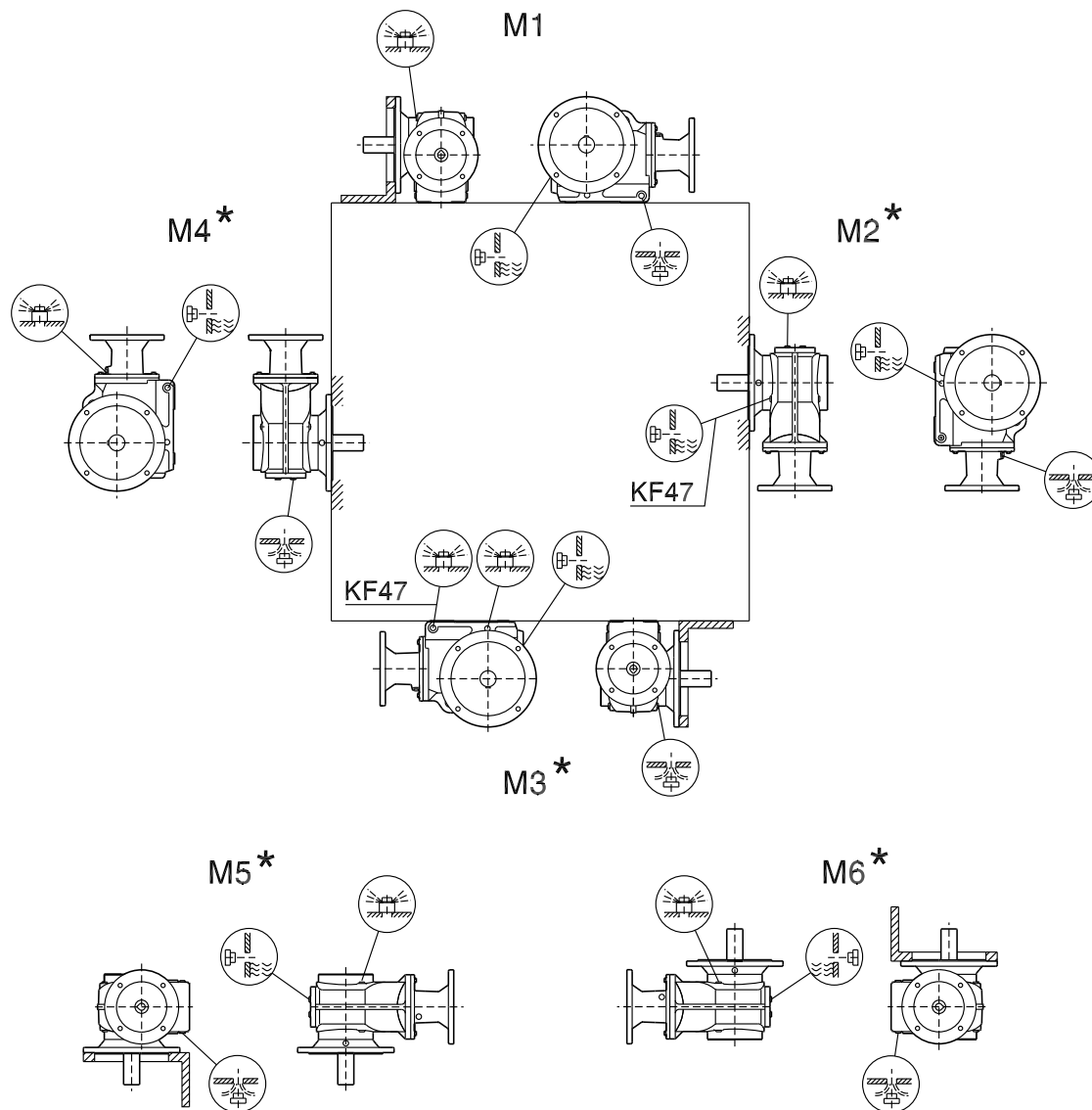
\* → page 75

**Important:** See the  information in the "Gearmotors" catalog, chapter. "Project Planning for Gear Units/Overhung and axial loads" (page 34).

K/KH167B-187B



\* → page 75

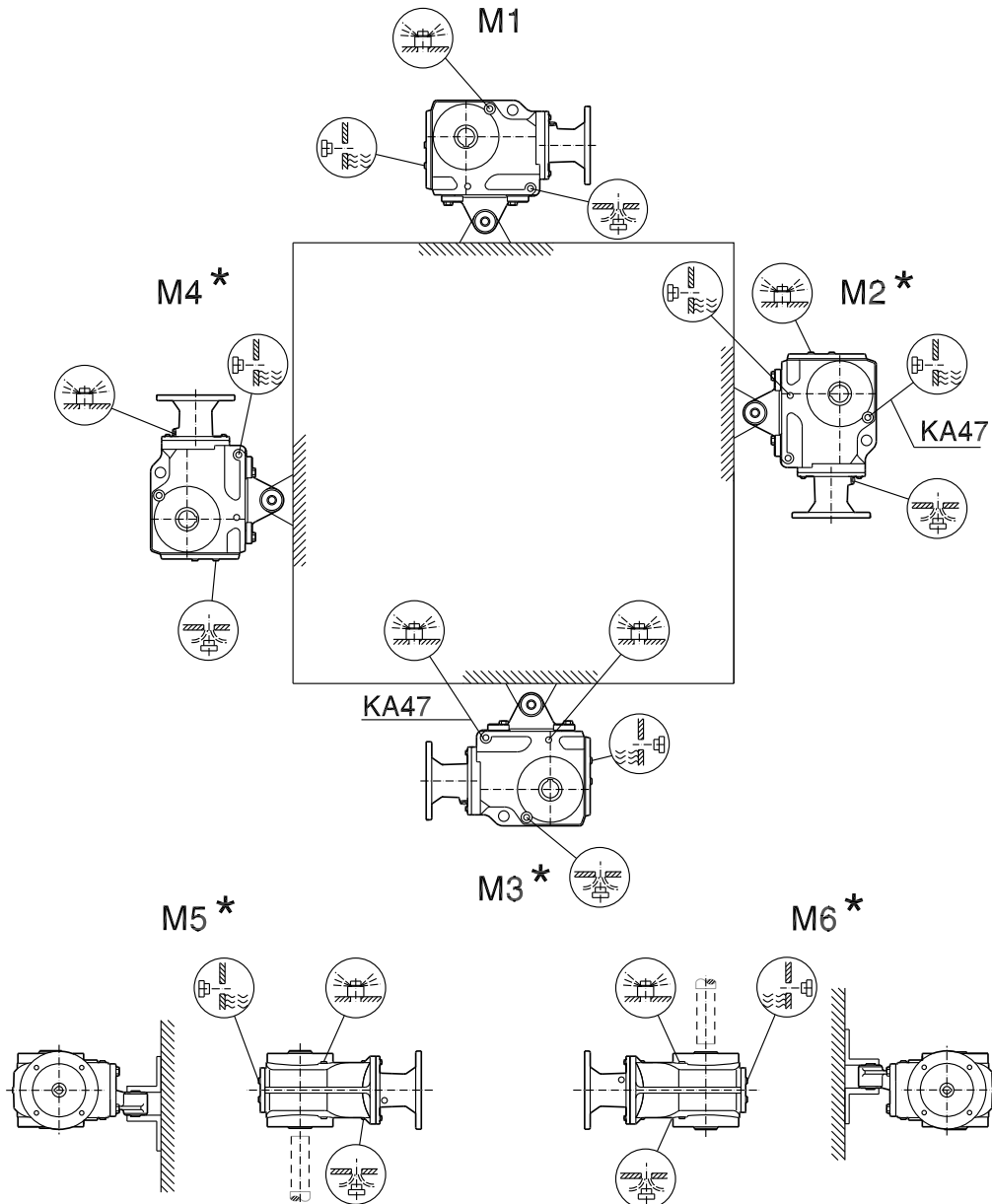
**KF/KAF/KHF/KAZ/KHZ37-157, KVF/KVZ37-107****33 003 00 10**

\* → page 75



KA/KH37-157, KV37-107, KT37-97

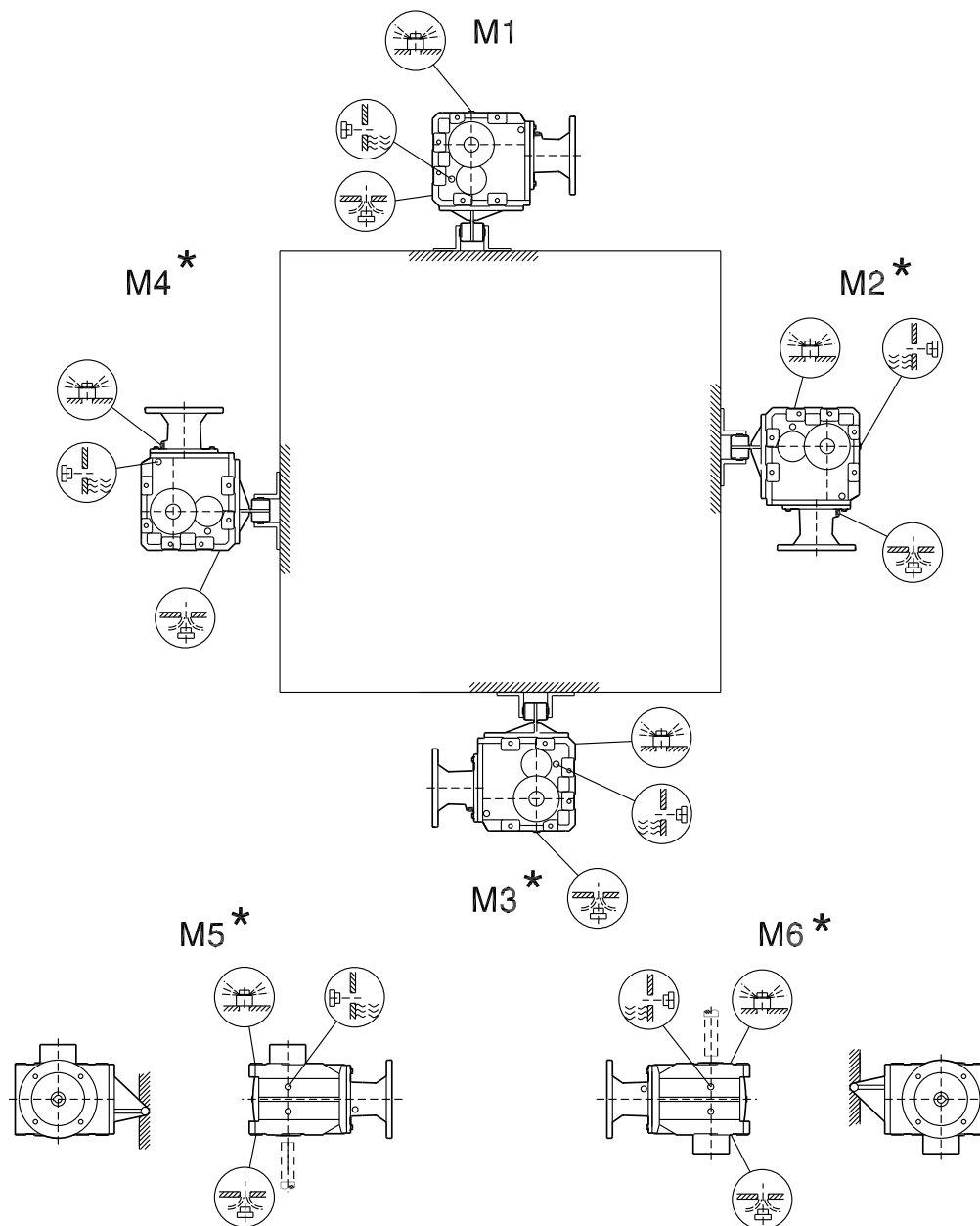
33 004 00 10



\* → page 75

KH167-187

33 005 00 10

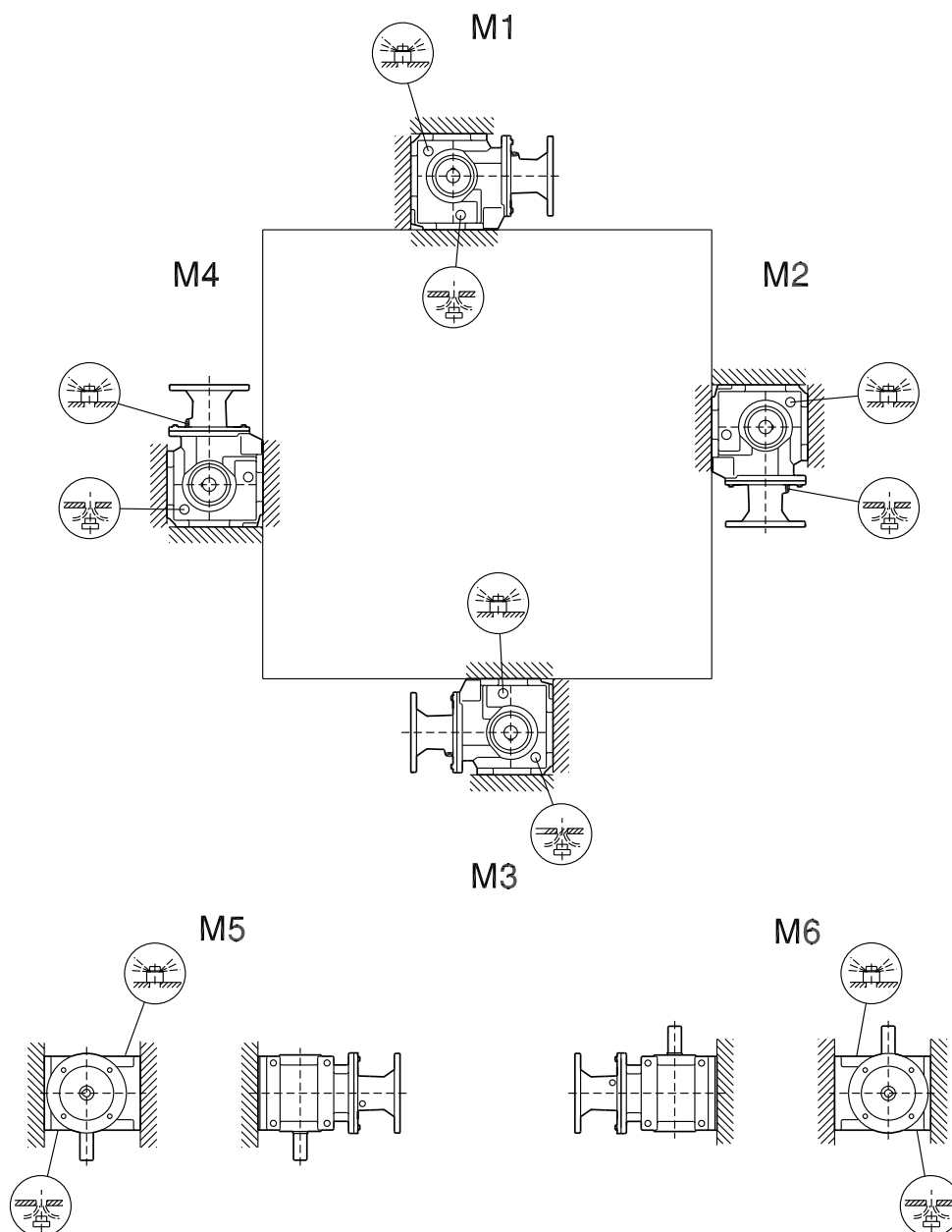


\* → page 75


## 5.7 Mounting positions of helical-worm gear units

S37

02 001 00 10

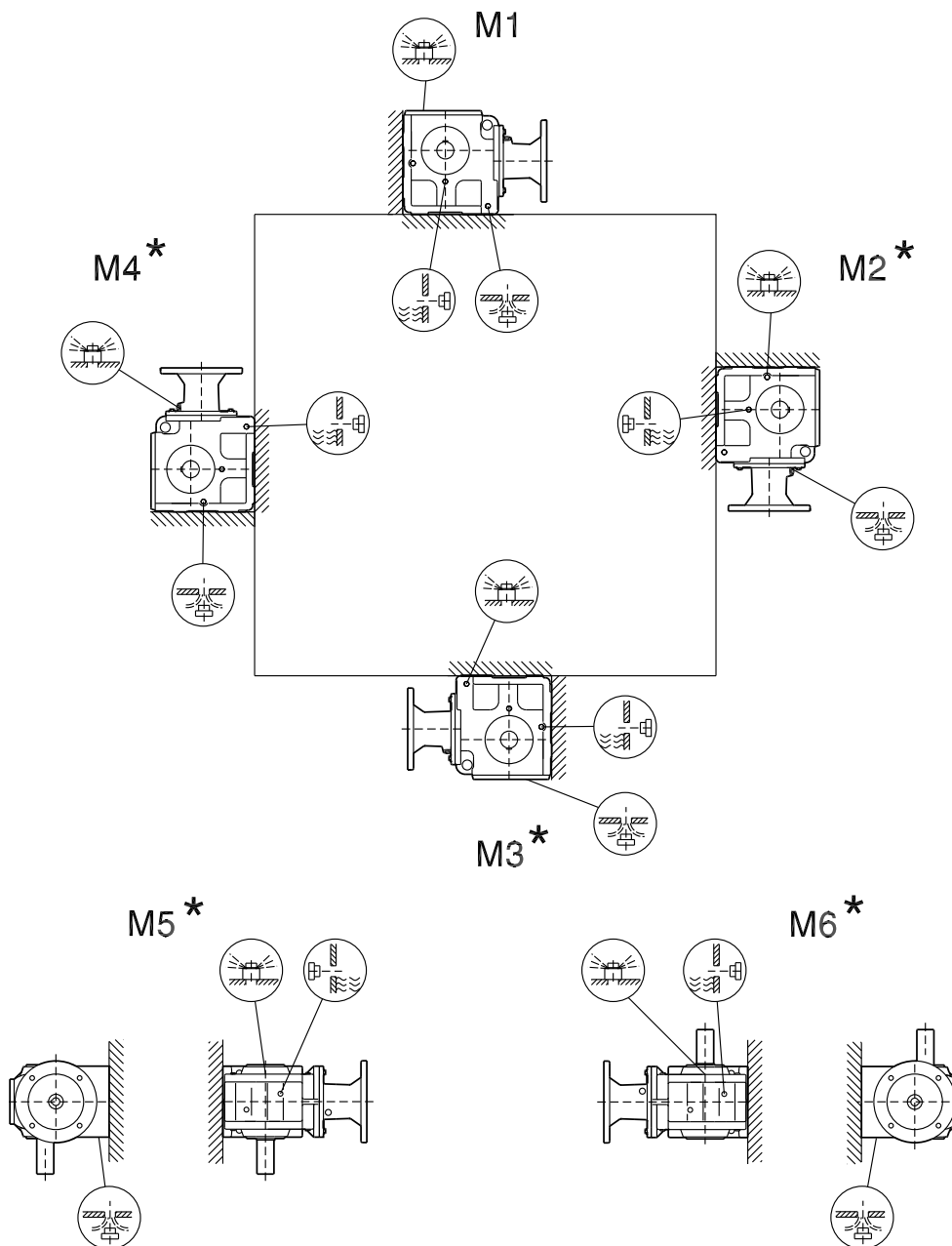


\* → page 75


**Important:** See the  information in the "Gearmotors" catalog, chapter. "Project Planning for Gear Units/Overhung and axial loads" (page 34).

S47-S97

02 002 00 10

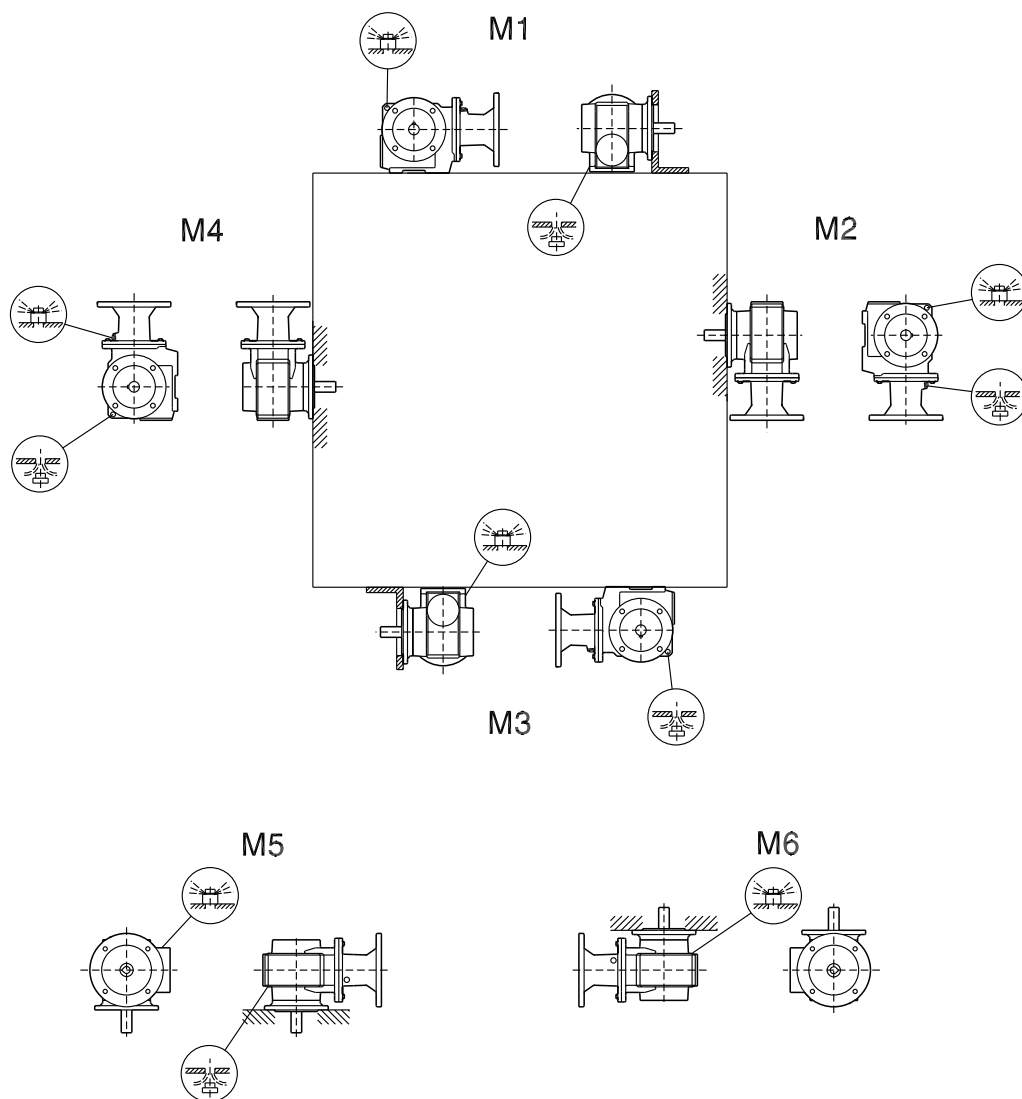


\* → page 75

**Important:** See the  information in the "Geared Motors" catalog, Sec. "Project Planning for Gear Units/Overhung and axial loads" (page 34).

SF/SAF/SHF37

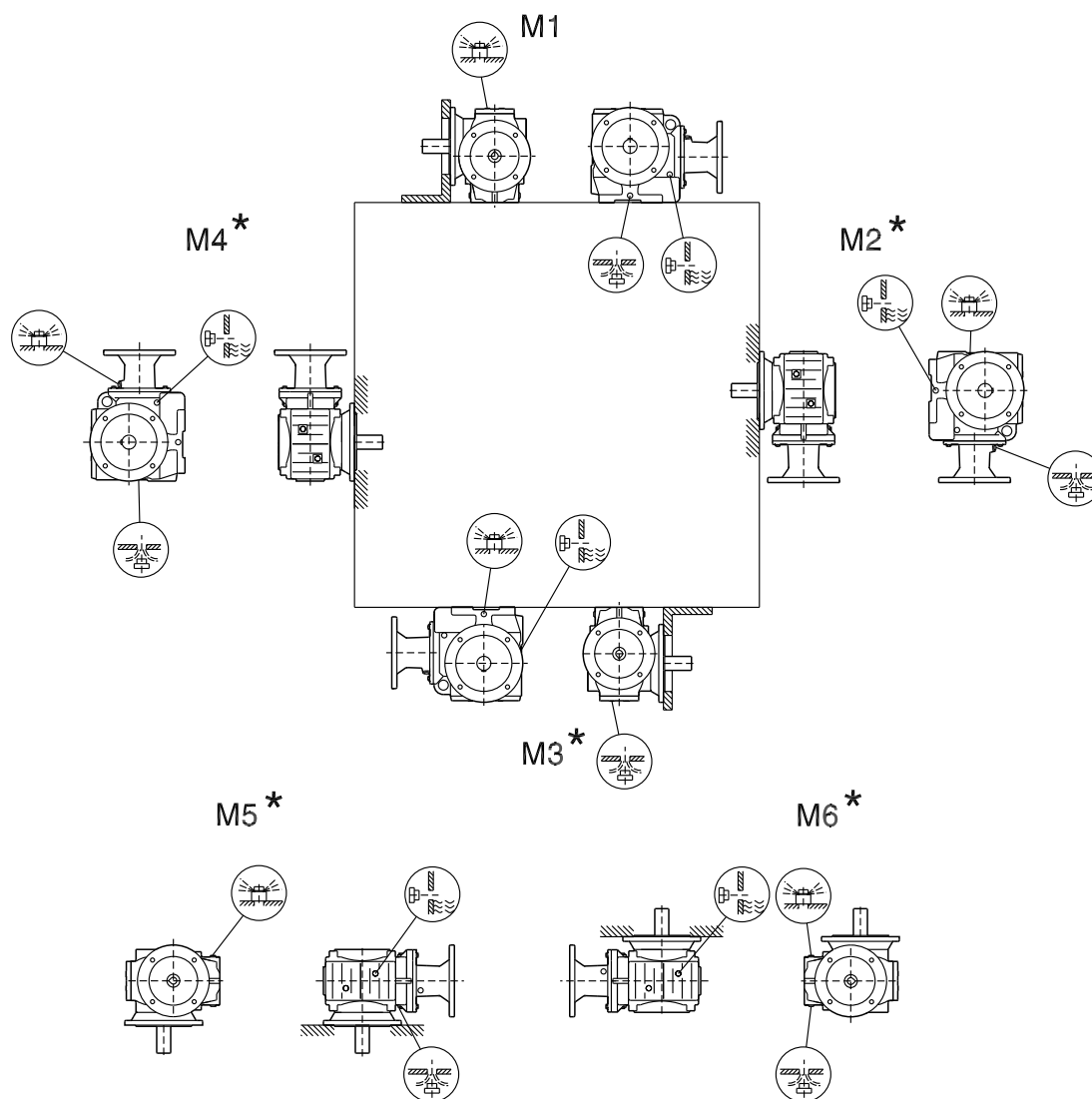
02 003 00 10



\* → page 75

SF/SAF/SHF/SAZ/SHZ47-97

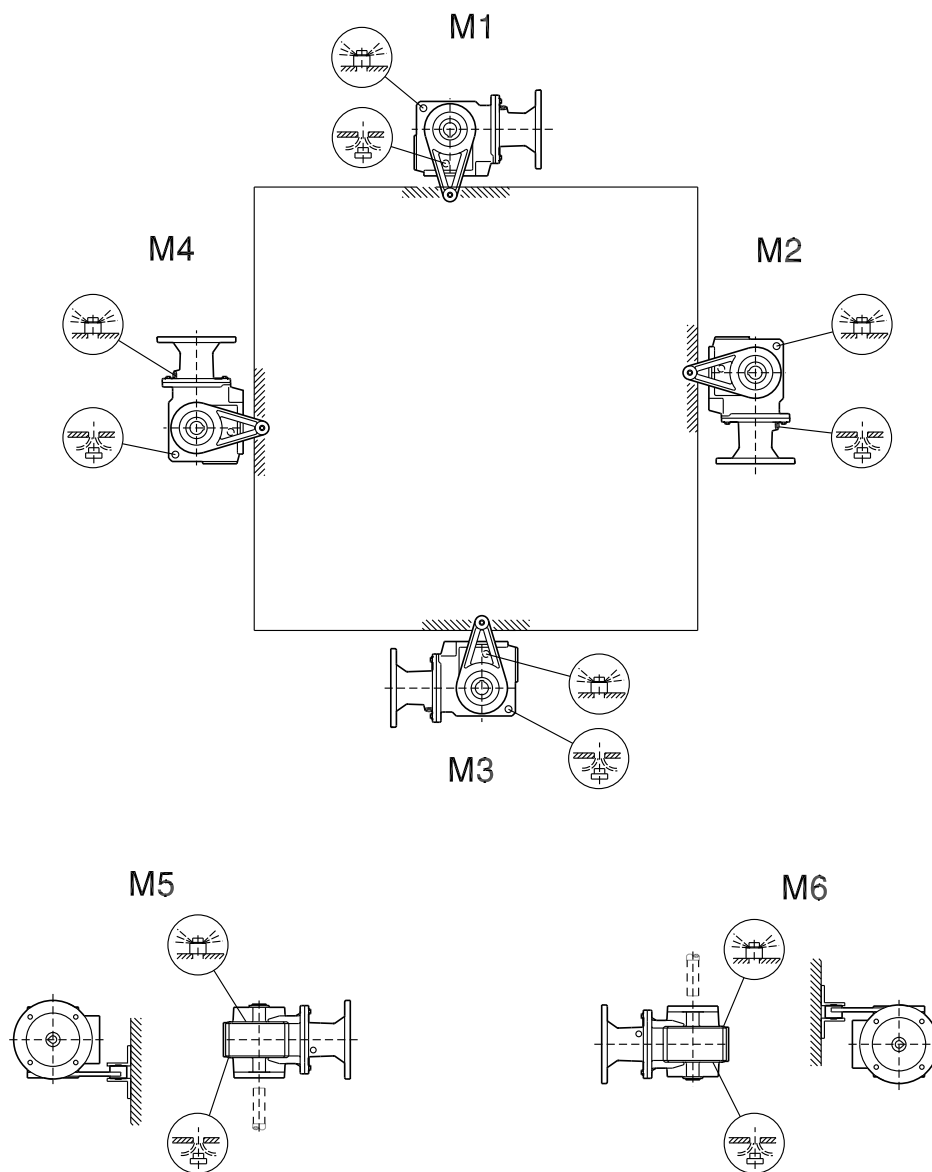
02 004 00 10



\* → page 75

SA/SH/ST37

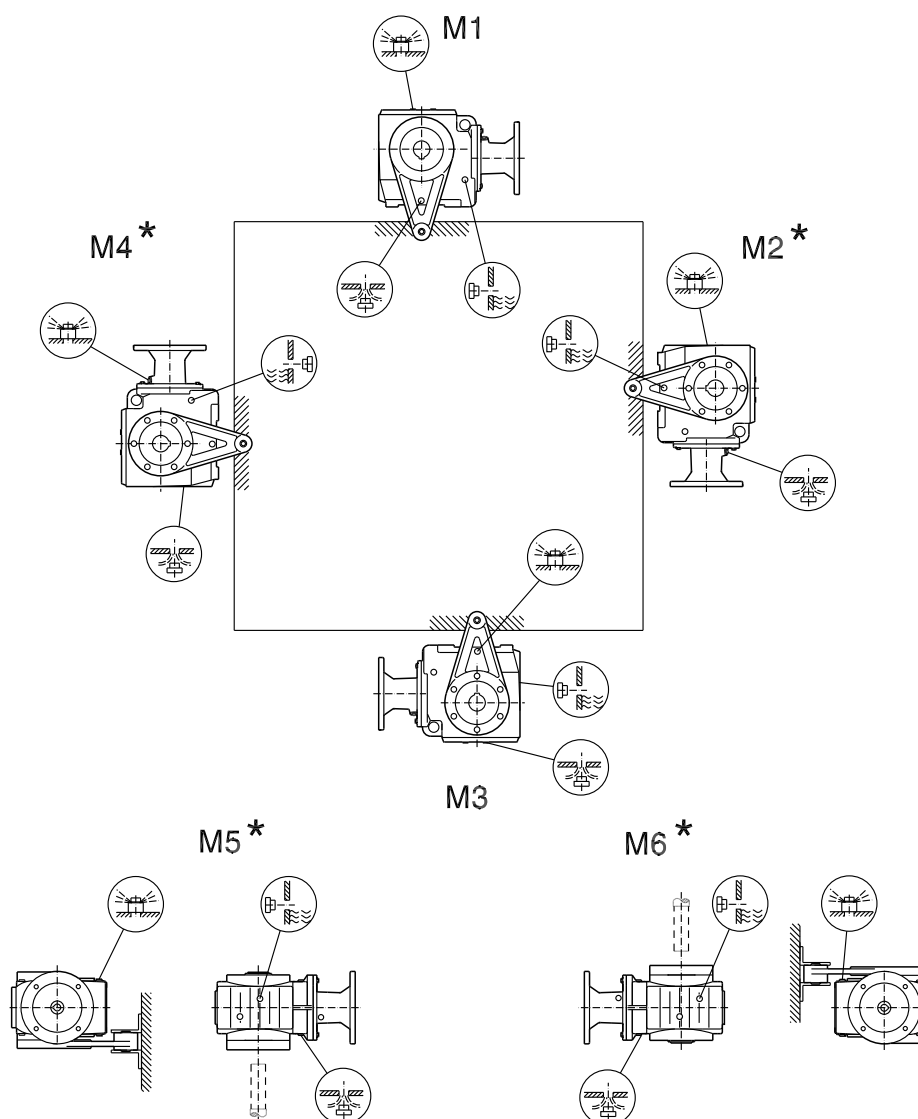
02 005 00 10



\* → page 75

SA/SH/ST47-97

02 006 00 10



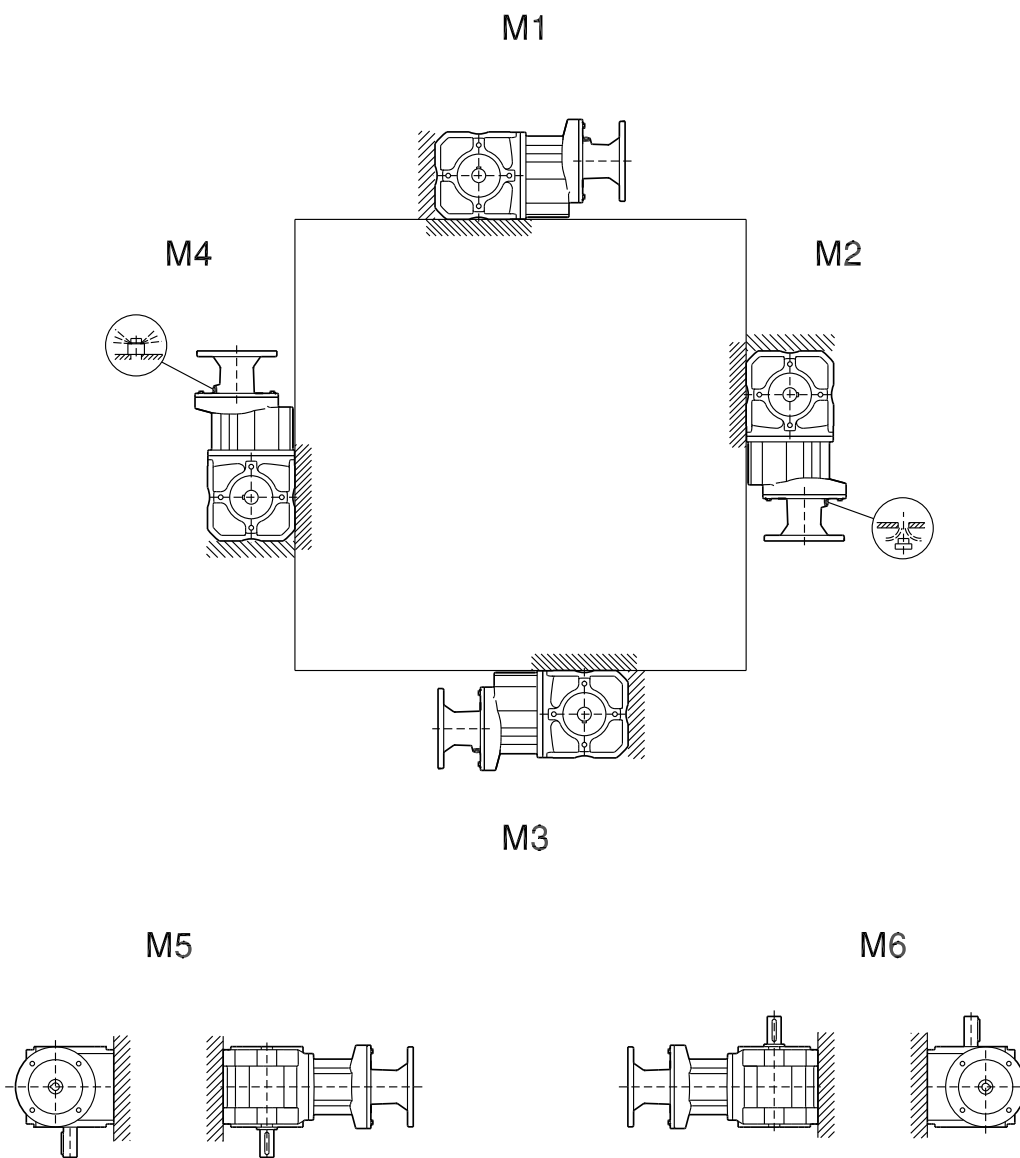
\* → page 75



5.8 Mounting positions of SPIROPLAN® gear units" W/WA..B/WH37B-47B

20 002 00 10

5



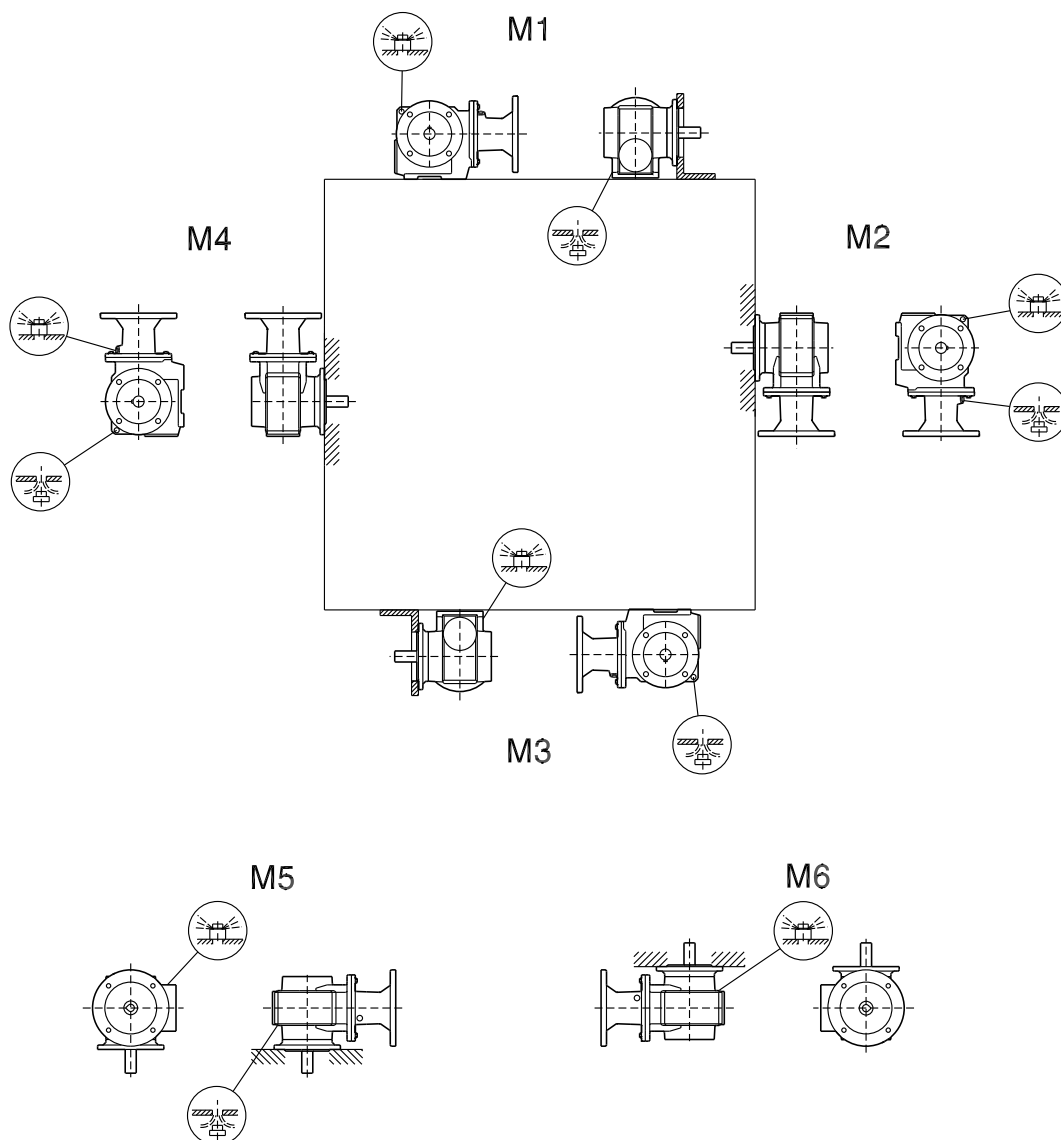
\* → page 75

**Mounting Positions**

Mounting positions of SPIROPLAN® gear units" W/WA..B/WH37B-47B

WF/WAF/WHF37-47

02 003 00 10

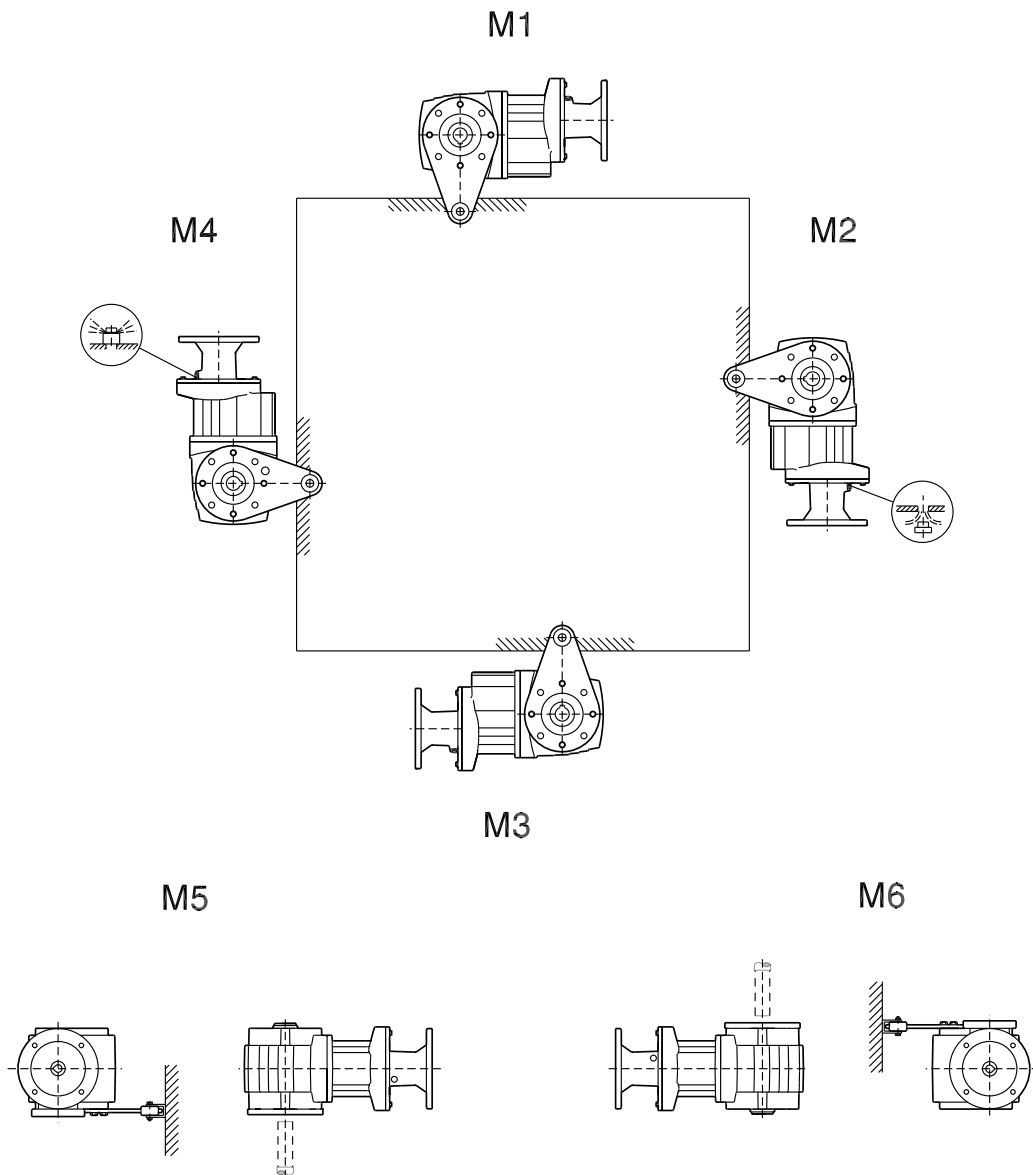


\* → page 75

WA/WH/WT37-47

20 004 00 10

5



\* → page 75