

### 3 Overview of types and type designations

#### 3.1 Designs and options – R, F, K, S, W gear units

Below an overview of type designations for R, F, K, S, and W gear units and their options.

##### 3.1.1 Helical gear units

Designation	Description
RX..	Single-stage foot-mounted design, output shaft with key
RXF..	Single-stage B5 flange-mounted design, output shaft with key
R..	Foot-mounted design, output shaft with key
R..F	Foot- and B5 flange-mounted design, output shaft with key
RF..	B5 flange-mounted design, output shaft with key
RZ..	B14 flange-mounted design, output shaft with key
RM..	B5 flange-mounted design with extended bearing hub, output shaft with key

##### 3.1.2 Parallel-shaft helical gear units

Designation	Description
F..	Foot-mounted design, output shaft with key
FA..B	Foot-mounted design, hollow shaft with keyway
FH..B	Foot-mounted design, hollow shaft with shrink disk
FV..B	Foot-mounted design, splined hollow shaft to DIN 5480
FF..	B5 flange-mounted design, output shaft with key
FAF..	B5 flange-mounted design, hollow shaft with keyway
FHF..	B5 flange-mounted design, hollow shaft with shrink disk
FVF..	B5 flange-mounted design, splined hollow shaft to DIN 5480
FA..	Hollow shaft with keyway
FH..	Hollow shaft with shrink disk
FT..	Hollow shaft with TorqLOC® hollow shaft mounting system
FV..	Splined hollow shaft to DIN 5480
FZ..	B14 flange-mounted design, output shaft with key
FAZ..	B14 flange-mounted design, hollow shaft with keyway
FHZ..	B14 flange-mounted design, hollow shaft with shrink disk
FVZ..	B14 flange-mounted design, splined hollow shaft to DIN 5480
FM..	B5 flange-mounted design with extended bearing hub, output shaft with key
FAM..	B5 flange-mounted design with extended bearing hub, hollow shaft with keyway

## 3.1.3 Helical-bevel gear units

Designation	
K..	Foot-mounted design, output shaft with key
KA..B	Foot-mounted design, hollow shaft with keyway
KAF..B	B5 flange-mounted design, foot-mounted design, hollow shaft with keyway
KF..B	B5 flange-mounted design, foot-mounted design, output shaft with key
KH..B	Foot-mounted design, hollow shaft with shrink disk
KHF..B	B5 flange-mounted design, foot-mounted design, hollow shaft with shrink disk
KV..B	Foot-mounted design, splined hollow shaft to DIN 5480
KF..	B5 flange-mounted design, output shaft with key
KAF..	B5 flange-mounted design, hollow shaft with keyway
KHF..	B5 flange-mounted design, hollow shaft with shrink disk
KVF..	B5 flange-mounted design, splined hollow shaft to DIN 5480
KA..	Hollow shaft with keyway
KH..	Hollow shaft with shrink disk
KT..	Hollow shaft with TorqLOC® hollow shaft mounting system
KV..	Splined hollow shaft to DIN 5480
KZ..	B14 flange-mounted design, output shaft with key
KAZ..	B14 flange-mounted design, hollow shaft with keyway
KHZ..	B14 flange-mounted design, hollow shaft with shrink disk
KVZ..	B14 flange-mounted design, splined hollow shaft to DIN 5480
KM..	B5 flange-mounted design with extended bearing hub, output shaft with key
KAM..	B5 flange-mounted design with extended bearing hub, hollow shaft with keyway

## 3.1.4 Helical-worm gear units

Designation	Description
S..	Foot-mounted design, output shaft with key
SF..	B5 flange-mounted design, output shaft with key
SAF..	B5 flange-mounted design and hollow shaft with keyway
SHF..	B5 flange-mounted design and hollow shaft with shrink disk
SA..	Hollow shaft with keyway
SH..	Hollow shaft with shrink disk
ST..	Hollow shaft with TorqLOC® hollow shaft mounting system
SAZ..	B14 flange-mounted design and hollow shaft with keyway

Designation	Description
SHZ..	B14 flange-mounted design and hollow shaft with shrink disk

### 3.1.5 SPIROPLAN® gear units

Designation	Description
W..	Foot-mounted design, output shaft with key
WF..	B5 flange-mounted design, output shaft with key
WAF..	B5 flange-mounted design and hollow shaft with keyway
WA..	Hollow shaft with keyway
WA..B	Foot-mounted design and hollow shaft with keyway
WH..B	Foot-mounted design and hollow shaft with shrink disk
WHF..	B5 flange-mounted design and hollow shaft with shrink disk
WH..	Hollow shaft with shrink disk
WT..	Hollow shaft with TorqLOC® hollow shaft mounting system

### 3.1.6 Options

R, F and K gear units:

Designation	Description
/R	Reduced backlash

K, S and W gear units:

Designation	Description
/T	With torque arm

F gear units:

Designation	Description
/G	With rubber buffer

### 3.1.7 Condition monitoring

Designation	Description
/DUO	Diagnostic Unit Oil = Oil aging sensor
/DUV	Diagnostic Unit Vibration = Vibration sensor

### 3.2 Versions and options for the DRN.. motor series

The type designations of the motor series DRN.. and the designs and options are listed in the following tables.

#### 3.2.1 Designation of the DRN.. motors

The following table shows the types of AC motors:

Designation	
DRN..	Energy-efficient motor, Premium Efficiency IE3
63 – 315	Nominal sizes: 63, 71, 80, 90, 100, 112, 132, 160, 180, 200, 225, 250, 280, 315
K, S, M, L, MC, LC, ME, MS, MK, H, LS, LM	Lengths
R, Q	Power designation (identification of motors with the same size but with different power)
2, 4, 6, 8	Number of poles

#### 3.2.2 Output

Code in the type designation	Description	Size
/FI	IEC foot-mounted motor	63MS – 315H
/F.A, /F.B	Universal foot-mounting (/F.A = motor feet enclosed in delivery, /F.B = motor feet mounted at factory)	71MS – 132S, 225S – 315H
/FF	IEC flange-mounted motor with through bores	63MS – 315H
/FE	IEC flange-mounted motor with through bores and IEC feet	63MS – 315H
/FT	IEC flange-mounted motor with threads	63MS – 100L
/FY	IEC flange-mounted motor with threads and IEC feet	63MS – 100L
/FC	C-face flange-mounted motor, dimensions in inch	63MS – 160L
/FG	Integral motor, as stand-alone motor	63MS – 315H
/FM	Integral motor with IEC feet	63MS – 315H
/FL	Flange-mounted motor (deviating from IEC)	63MS – 315H
/FK	Flange-mounted motor (deviating from IEC) with feet	63MS – 280M
/2W	Second shaft end on the motor	63MS – 315H
None	FKM oil seal	63MS – 315H

3.2.3 Brake and backstop

Code in the type designation	Description	Size
/BE.. <sup>1)</sup>	Spring-loaded brake with specification of size	63MS – 315H
HR	Manual brake release, re-engaging	63MS – 315H
HF	Manual brake release, lockable	63MS – 315H
/RS	Backstop	63MS – 315H

1) Also available in design for functional safety

3.2.4 Built-in encoder

Code in the type designation	Description	Size
/EI7C <sup>1)</sup>	Built-in incremental encoder with HTL interface, 24 periods	63MS – 132S
/EI76	Built-in incremental encoder with HTL interface and 6/2/1 period(s)	71MS – 132S
/EI72		71MS – 132S
/EI71		71MS – 132S
/EI8R	Built-in incremental encoder with TTL interface and 1024 periods (4096 increments)	71MS – 132L
/EI8C	Built-in incremental encoder with HTL interface and 1024 periods (4096 increments)	71MS – 132L

1) From 71MS to 132S also available in design for functional safety

3.2.5 Add-on encoder

Code in the type designation	Description	Size
/EK8S <sup>1)</sup>	Add-on encoder with sin/cos interface	71. – 132L
/EV8S		71. – 132L
/EK8R	Add-on encoder with TTL(RS422) interface	71. – 132L
/EV8R		71. – 132S
/EK8C	Add-on encoder with HTL interface	71. – 132L
/EV8C		71. – 132S
/AK8W <sup>1)</sup>	Add-on absolute encoder with sin/cos and RS485 interface (multi-turn)	71. – 132L
/AV8W		71. – 132L
/AK8Y <sup>1)</sup>	Add-on absolute encoder with sin/cos and SSI interface (multi-turn)	71. – 132L
/AV8Y		71. – 132L
/AK8H	Add-on absolute encoder with sin/cos and RS485 interface and HIPERFACE® protocol	71. – 132L
/AV8H		71. – 132L

1) Also available for design in functional safety

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## Overview of types and type designations

Versions and options for the DRN.. motor series

Code in the type designation	Description	Size
/EG7S <sup>1)</sup>	Add-on encoder with sin/cos interface	132M – 280M
ES7S <sup>1)</sup>		80MS – 132S
/EV7S		80MS – 280M
/EH7S		315S – 315H
/ES7R	Add-on encoder with TTL(RS422) interface	80MS – 132S
/EG7R		132M – 280M
/EV7R		80MS – 280M
/EH7R		315S – 315H
/AS7W <sup>1)</sup>	Add-on absolute encoder with sin/cos and RS485 interface (multi-turn)	80MS – 132S
/AG7W <sup>1)</sup>		132M – 280M
/AV7W		80MS – 280M
/AS7Y <sup>1)</sup>	Add-on absolute encoder with sin/cos and SSI interface (multi-turn)	80MS – 132S
/AG7Y <sup>1)</sup>		132M – 280M
/AV7Y		80MS – 280M
/AH7Y		315S – 315H
/ES7C	Add-on encoder with HTL interface	80MS – 132S
/EG7C		132M – 280M
/EV7C		80MS – 280M
/EH7C		315S – 315H
/EH7T	Add-on encoder with TTL(RS422) interface	315S – 315H

1) Also available for design in functional safety

### 3.2.6 Thermal monitoring

Code in the type designation	Description	Size
/TF	Temperature sensor (PTC thermistor or PTC resistor)	63MS – 315H
/TH	Thermostat (bimetallic switch)	63MS – 315H
/PK	PT1000 sensor	63MS – 315H
/PT	PT100 sensor	63MS – 315H

### 3.2.7 Plug connector

Code in the type designation	Description	Size
/IS	Integrated plug connector with terminal block in terminal box cover	63MS – 132S
/ISU	Integrated plug connector without terminal block in terminal box cover	63MS – 132S

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Code in the type designation	Description	Size
/ASE.	Mounted Han® 10ES plug connector on terminal box with single locking latch (cage clamp contacts on the motor side)	63MS – 132M
/ASB.	Mounted Han® 10ES plug connector on terminal box with double locking latch (cage clamp contacts on the motor side)	63MS – 132M
/ACE.	Mounted Han® 10E plug connector on terminal box with single locking latch (crimp contacts on the motor side)	63MS – 132S
/ACB.	Mounted Han® 10E plug connector on terminal box with double locking latch (crimp contacts on the motor side)	63MS – 132S
/AME.	Mounted Han® Modular 10B plug connector on terminal box with single locking latch (crimp contacts on the motor side)	63MS – 132M
/ABE.		71MS – 225M
/ADE.		71MS – 225M
/AKE.		132M – 225M
/AMB.	Mounted Han® Modular 10B plug connector on terminal box with double locking latch (crimp contacts on the motor side)	63MS – 132M
/ABB.		71MS – 225M
/ADB.		71MS – 225M
/AKB.		132M – 225M
/AND.	Harting Han® Q8/0, single locking latch	63MS – 132M
/IV	Other industrial plug connectors according to customer specifications	63MS – 225M

### 3.2.8 Ventilation

Code in the type designation	Description	Size
None	Plastic fan guard	63MS – 90L
None	Steel fan guard	63MS – 315H
/LN	Noise-reducing fan guard	100L – 132S
/C	Canopy for fan guard	63MS – 315H
/V	Forced cooling fan	71MS – 315H
/AL	Aluminum fan	63MS – 315H
/Z	Additional inertia mass (flywheel fan)	63MS – 132L
/U	Non-ventilated (without fan)	63MS – 315H
/OL	Non-ventilated (closed B-side)	63MS – 132S

### 3.2.9 Bearings

Code in the type designation	Description	Size
/NIB	Current-insulated rolling bearings B-side	200L – 315H
/ERF	Reinforced bearings on A-side with rolling bearing	250M – 315H

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## Overview of types and type designations

Versions and options for the DRN.. motor series

Code in the type designation	Description	Size
/NS	Relubrication device	225S – 315H
None	Preparation for accommodating SPM measuring nipples	132M – 315H

### 3.2.10 Condition monitoring

Code in the type designation	Description	Size
/DUE	Diagnostic Unit Eddy Current = function/wear monitoring for BE1 to BE122 brake	71MS – 315H

### 3.2.11 Other motor designs

Code in the type designation	Description	Size
None	Motor design according to recommendation VE01 of the VIK (Verband der Industriellen Energie- und Kraftwirtschaft e.V. – Association of Energy and Power Generation Industry)	63MS – 315H

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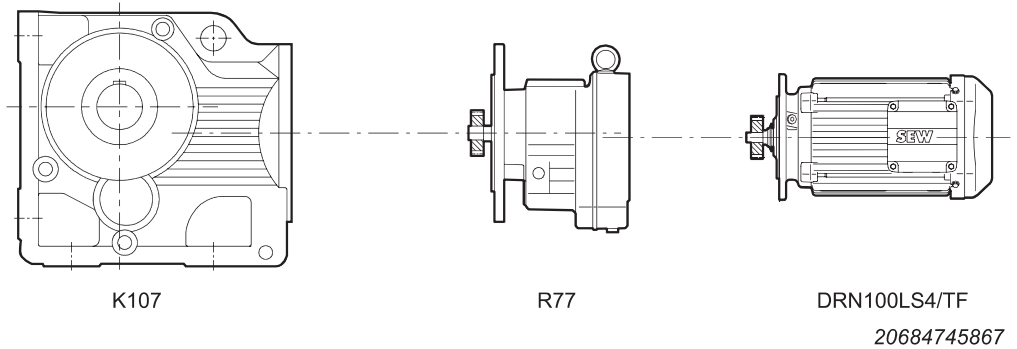
3.3 Type designation of a DRN.. gearmotor

The type designation of the gearmotor starts from the component on the output end.

For instance, a multi-stage helical-bevel gearmotor with temperature sensor in the motor winding has the following type designation:

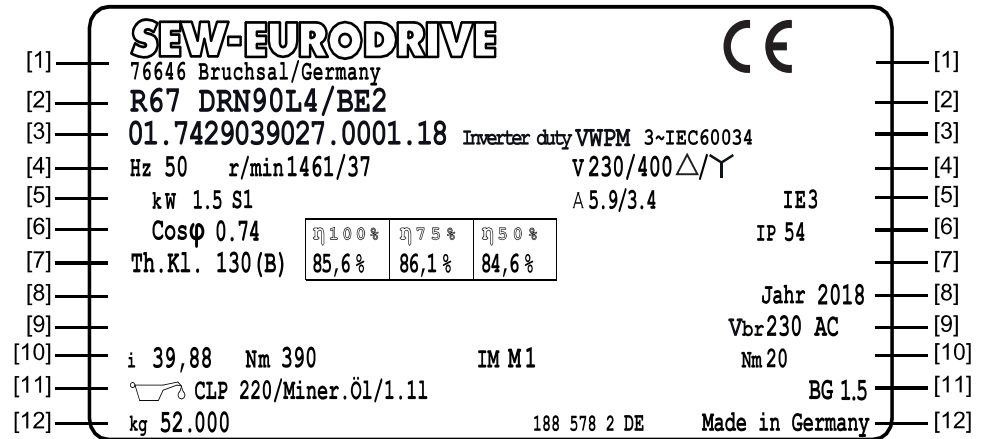
Example: K107R77 DRN100LS4 /TF		
Gear unit type	K	1st Gear unit
Size	107	
Gear unit type	R	2nd Gear unit
Size	77	
Motor series	DR	Motor
Product line	N	
Size	100LS	
Number of poles	4	
Motor option temperature sensor	/TF	Option

Example: DRN.. gearmotor



### 3.4 DRN.. gearmotor nameplate

The following figure shows an example nameplate of a DRN.. gearmotor.



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Line	Information
[1]	• Manufacturer, address, CE mark
[2]	• Type designation
[3]	• Serial number • Suitability for inverter operation • Number of phases and underlying rating and performance standard
[4]	• Rated frequency • Rated speed of the motor / speed of the gear unit output shaft • Nominal voltage
[5]	• Rated power and operating mode • Rated current • Energy efficiency class according to IEC/EN 60034-30-1
[6]	• Power factor • Efficiency after capacity utilization of 100%, 75% and 50% • Degree of protection according to IEC 60034-5
[7]	• Thermal class
[8]	• Year of manufacture
[9]	• Brake voltage
[10]	• Gear unit ratio • Output torque • Mounting position • Nominal braking torque
[11]	• Oil type and oil fill volume • Brake control
[12]	• Gearmotor weight • Nameplate number • Country of manufacture

3.5 Gearmotor types

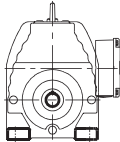
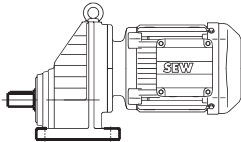
**INFORMATION**



The designs described in this chapter refer to DRN.. gearmotors from SEW-EURODRIVE. They also apply to gear units without motors.

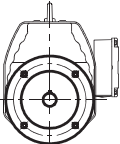
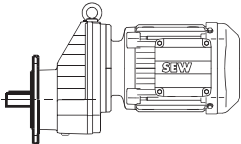
3.5.1 Helical gearmotors

The following designs of helical gearmotors are available:



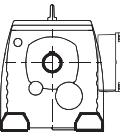
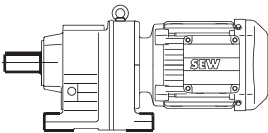
**RX..DRN..**

Single-stage, helical gearmotor in foot-mounted design



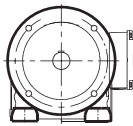
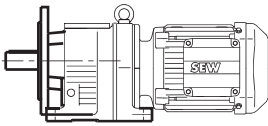
**RXF..DRN..**

Single-stage helical gearmotor in B5 flange-mounted design



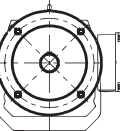
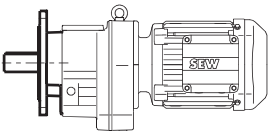
**R..DRN..**

Helical gearmotor in foot-mounted design



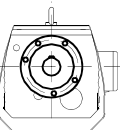
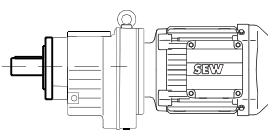
**R..F DRN..**

Helical gearmotor in foot-mounted and B5 flange-mounted design



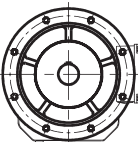
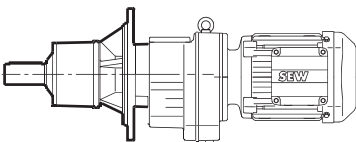
**RF..DRN..**

Helical gearmotor in B5 flange-mounted design



**RZ..DRN..**

Helical gearmotor in B14 flange-mounted design

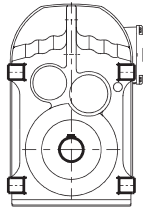
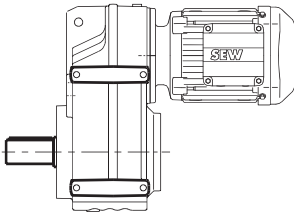


**RM..DRN..**

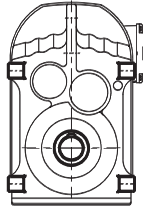
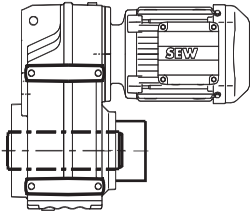
Helical gearmotor in B5 flange-mounted design with extended bearing hub

## 3.5.2 Parallel-shaft helical gearmotors

The following designs of parallel-shaft helical gearmotors are available:

**F..DRN..**

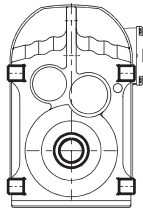
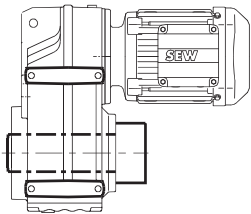
Parallel-shaft helical gearmotor in foot-mounted design

**FA..B DRN..**

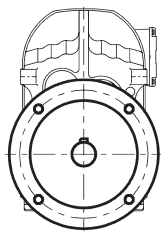
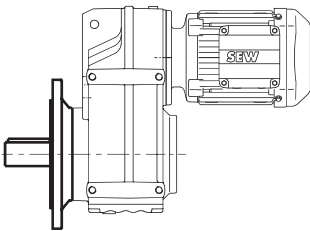
Parallel-shaft helical gearmotor in foot-mounted design with hollow shaft

**FV..B DRN..**

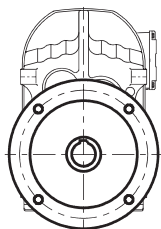
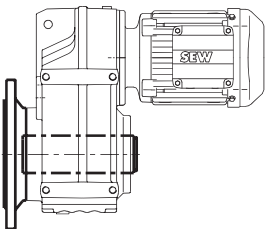
Parallel-shaft helical gearmotor in foot-mounted design with splined hollow shaft to DIN 5480

**FH..B DRN..**

Parallel-shaft helical gearmotor in foot-mounted design with hollow shaft and shrink disk

**FF..DRN..**

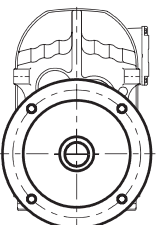
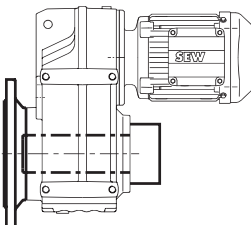
Parallel-shaft helical gearmotor in B5 flange-mounted design

**FAF..DRN..**

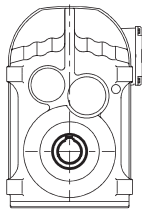
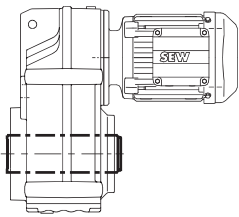
Parallel-shaft helical gearmotor in B5 flange-mounted design with hollow shaft

**FVF..DRN..**

Parallel-shaft helical gearmotor in B5 flange-mounted design with splined hollow shaft to DIN 5480

**FHF..DRN..**

Parallel-shaft helical gearmotor in B5 flange-mounted design with hollow shaft and shrink disk

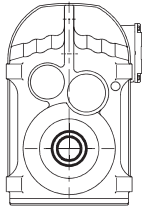
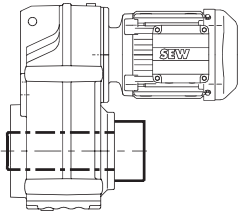


**FA..DRN..**

Parallel-shaft helical gearmotor with hollow shaft

**FV..DRN..**

Parallel-shaft helical gearmotor with splined hollow shaft according to DIN 5480

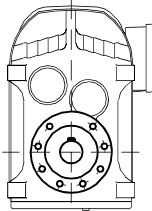
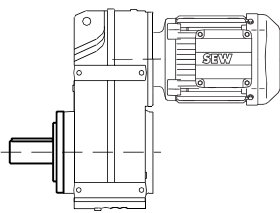


**FH..DRN..**

Parallel-shaft helical gearmotor with hollow shaft and shrink disk

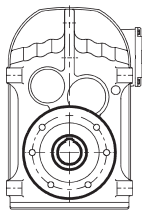
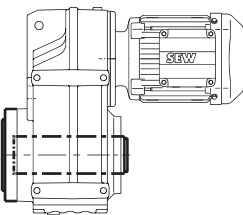
**FT..DRN..**

Parallel-shaft helical gearmotor with hollow shaft and TorqLOC® hollow shaft mounting system



**FZ..DRN..**

Parallel-shaft helical gearmotor in B14 flange-mounted design

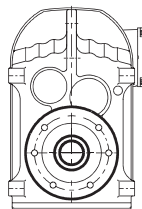
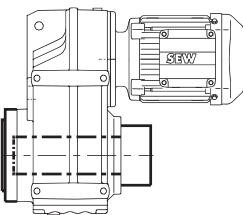


**FAZ..DRN..**

Parallel-shaft helical gearmotor in B14 flange-mounted design with hollow shaft

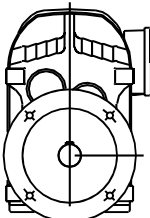
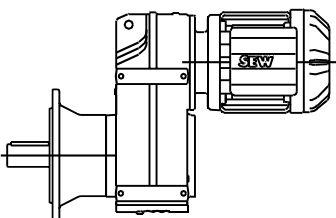
**FVZ..DRN..**

Parallel-shaft helical gearmotor in B14 flange-mounted design with splined hollow shaft to DIN 5480



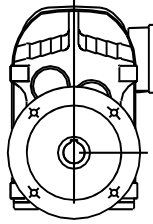
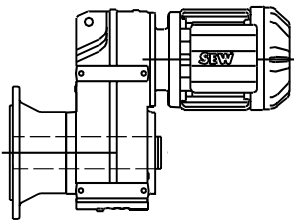
**FHZ..DRN..**

Parallel-shaft helical gearmotor in B14 flange-mounted design with hollow shaft and shrink disk



**FM.. DRN..**

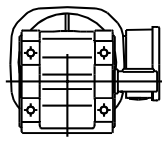
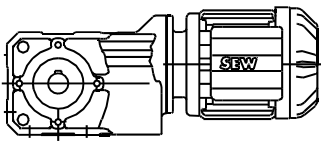
Parallel-shaft helical gearmotor in B5 flange-mounted design with extended bearing hub, output shaft with key

**FAM.. DRN..**

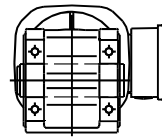
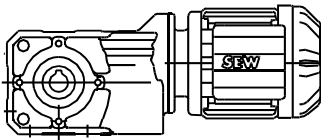
Parallel-shaft helical gearmotor in B5 flange-mounted design with extended bearing hub and hollow shaft

**3.5.3 Helical-bevel gearmotors, gear unit sizes K..19 and K..29**

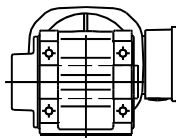
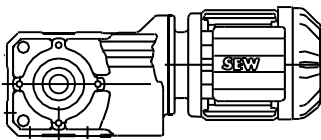
The following designs of helical-bevel gearmotors with gear units of size K..19 and K..29 are available:

**K19 DRN.., K29 DRN..**

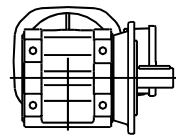
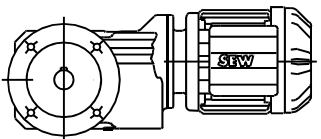
Helical-bevel gearmotor in foot-mounted design

**KA19B DRN.., KA29B DRN..**

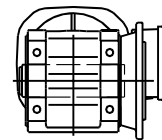
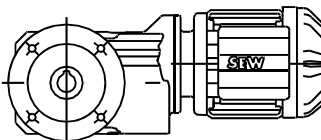
Foot-mounted helical-bevel gearmotor with hollow shaft

**KH19B DRN.., KH29B DRN..**

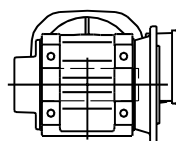
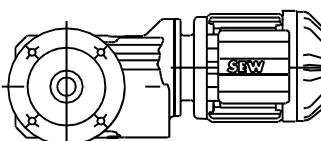
Helical-bevel gearmotor in foot-mounted design with hollow shaft and shrink disk

**KF19B DRN.., KF29B DRN..**

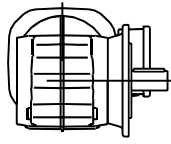
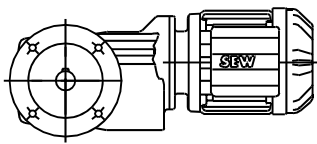
Helical-bevel gearmotor in B5 flange-mounted design in foot-mounted design

**KAF19B DRN.., KAF29B DRN..**

Helical-bevel gearmotor in B5 flange-mounted design with hollow shaft in foot-mounted design

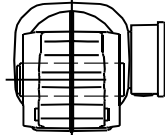
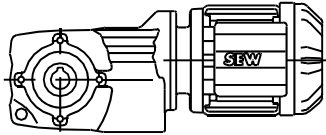
**KHF19B DRN.., KHF29B DRN..**

Helical-bevel gearmotor in B5 flange-mounted design with hollow shaft and shrink disk in foot-mounted design



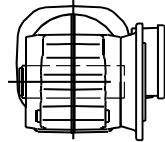
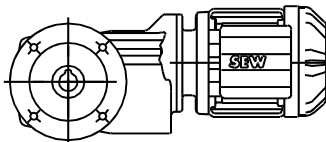
**KF19 DRN.., KF29 DRN..**

Helical-bevel gearmotor in B5 flange-mounted design



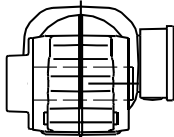
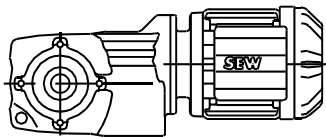
**KA19 DRN.., KA29 DRN..**

Helical-bevel gearmotor with hollow shaft



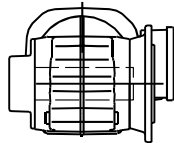
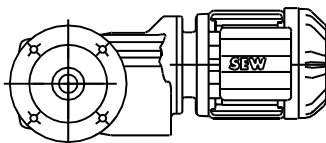
**KAF19 DRN.., KAF29 DRN..**

Helical-bevel gearmotor in B5 flange-mounted design with hollow shaft



**KH19 DRN.., KH29 DRN..**

Helical-bevel gearmotor with hollow shaft and shrink disk

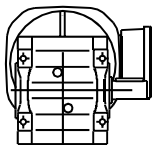
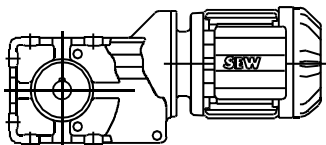


**KHF19 DRN.., KHF29 DRN..**

Helical-bevel gearmotor in B5 flange-mounted design with hollow shaft and shrink disk

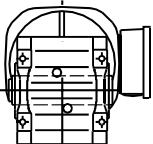
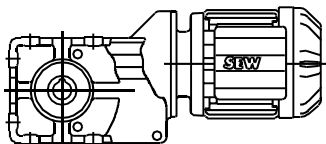
**3.5.4 Helical-bevel gearmotors, gear unit sizes K..39 and K..49**

The following designs of helical-bevel gearmotors with gear units of sizes K..39 and K..49 are available:



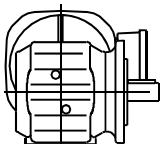
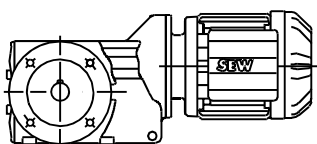
**K39 DRN.., K49 DRN..**

Helical-bevel gearmotor in foot-mounted design



**KA39B DRN.., KA49B DRN..**

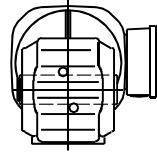
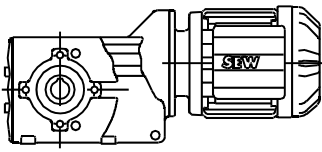
Helical-bevel gearmotor in foot-mounted design



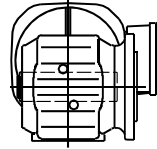
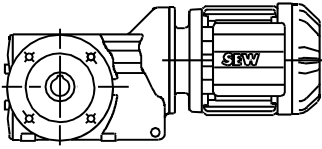
**KF39 DRN.., KF49 DRN..**

Helical-bevel gearmotor in B5 flange-mounted design

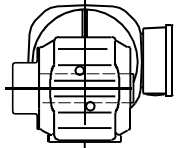
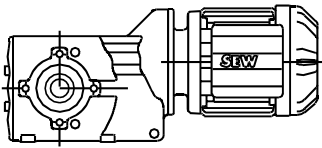
24832936/EN – 09/2018

**KA39 DRN.., KA49 DRN..**

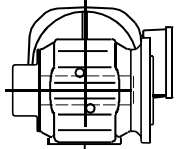
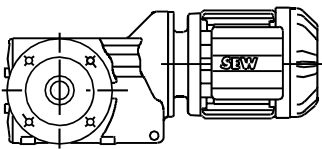
Helical-bevel gearmotor with hollow shaft

**KAF39 DRN.., KAF49 DRN..**

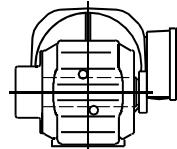
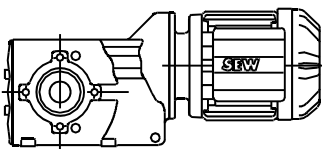
Helical-bevel gearmotor in B5 flange-mounted design with hollow shaft

**KH39 DRN.., KH49 DRN..**

Helical-bevel gearmotor with hollow shaft and shrink disk

**KHF39 DRN.., KHF49 DRN..**

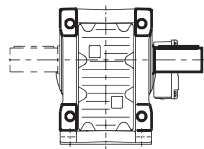
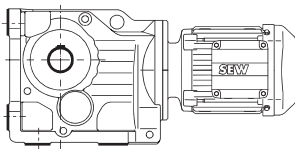
Helical-bevel gearmotor in B5 flange-mounted design with hollow shaft and shrink disk

**KT39 DRN.., KT49 DRN..**

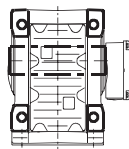
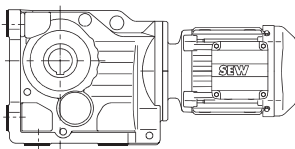
Helical-bevel gearmotor with hollow shaft and TorqLOC® hollow shaft mounting system

**3.5.5 Helical-bevel gearmotors, gear unit sizes K..7**

The following designs of helical-bevel gearmotors with gear units of size K..7 are available:

**K..7 DRN..**

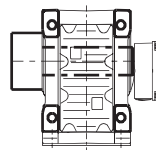
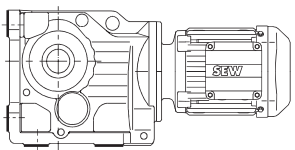
Helical-bevel gearmotor in foot-mounted design

**KA..7B DRN..**

Helical-bevel gearmotor in foot-mounted design with hollow shaft

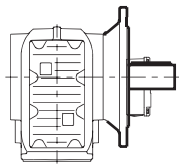
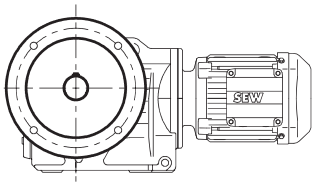
**KV..7B DRN..**

Foot-mounted helical-bevel gearmotor with splined hollow shaft according to DIN 5480

**KH..7B DRN..**

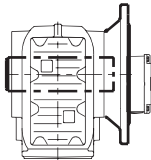
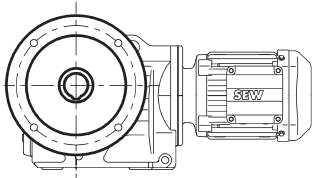
Helical-bevel gearmotor in foot-mounted design with hollow shaft and shrink disk





**KF..7 DRN..**

Helical-bevel gearmotor in B5 flange-mounted design

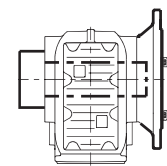
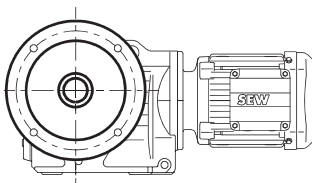


**KAF..7 DRN..**

Helical-bevel gearmotor in B5 flange-mounted design with hollow shaft

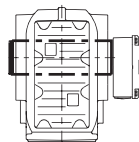
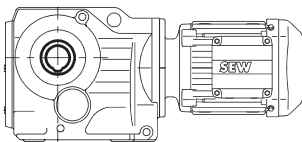
**KVF..7 DRN..**

Helical-bevel gearmotor in B5 flange-mounted design with splined hollow shaft to DIN 5480



**KHF..7 DRN..**

Helical-bevel gearmotor in B5 flange-mounted design with hollow shaft and shrink disk

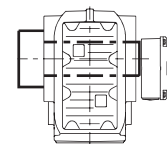
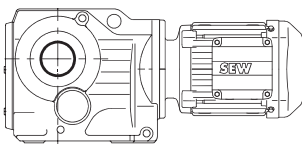


**KA..7 DRN..**

Helical-bevel gearmotor with hollow shaft

**KV..7 DRN..**

Helical-bevel gearmotor with hollow shaft and splined hollow shaft according to DIN 5480

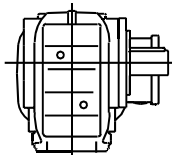
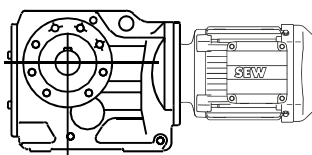


**KH..7 DRN..**

Helical-bevel gearmotor with hollow shaft and shrink disk

**KT..7 DRN..**

Helical-bevel gearmotor with hollow shaft and TorqLOC® hollow shaft mounting system



**KZ..7 DRN..**

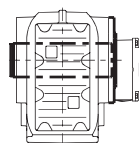
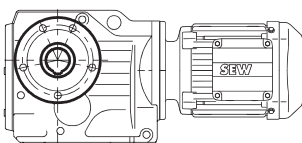
Helical-bevel gearmotor in B14 flange-mounted design

**KAZ..7 DRN..**

Helical-bevel gearmotor in B14 flange-mounted design with hollow shaft

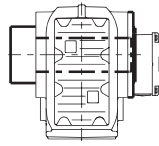
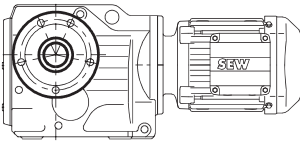
**KVZ..7 DRN..**

Helical-bevel gearmotor in B14 flange-mounted design with splined hollow shaft to DIN 5480



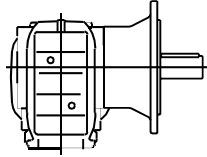
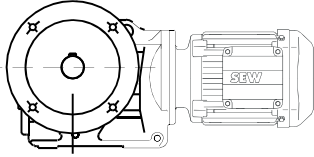
# 3 Overview of types and type designations

## Gearmotor types



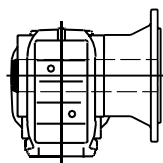
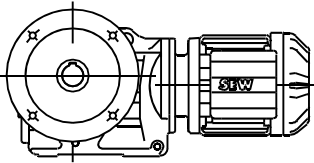
### KHZ..7 DRN..

Helical-bevel gearmotor in B14 flange-mounted design with hollow shaft and shrink disk



### KM..7 DRN..

Helical-bevel gearmotor in B5 flange-mounted design with extended bearing hub, output shaft with key

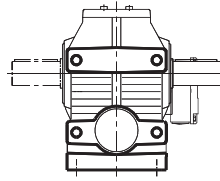
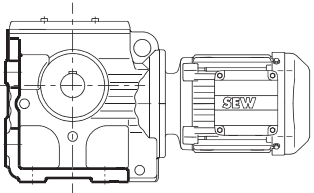


### KAM..7 DRN..

Helical-bevel gearmotor in B5 flange-mounted design with extended bearing hub and hollow shaft

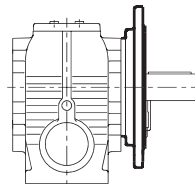
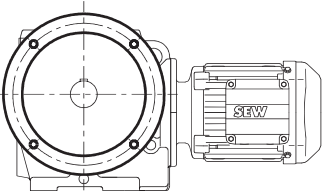
### 3.5.6 Helical-worm gearmotors

The following designs of helical-worm gearmotors are available:



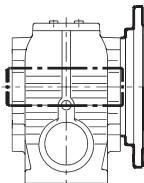
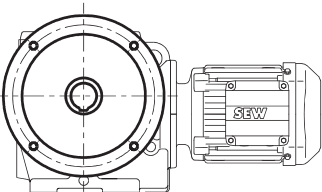
### S..DRN..

Helical-worm gearmotor in foot-mounted design



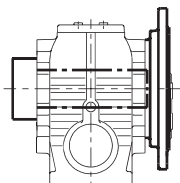
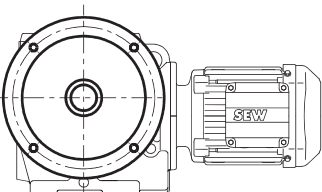
### SF..DRN..

Helical-worm gearmotor in B5 flange-mounted design



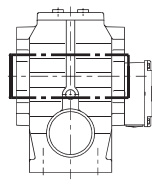
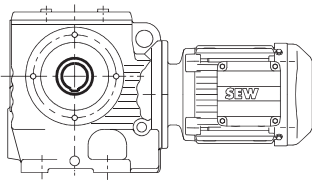
### SAF..DRN..

Helical-worm gearmotor in B5 flange-mounted design with hollow shaft



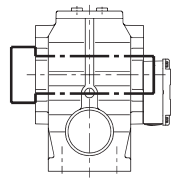
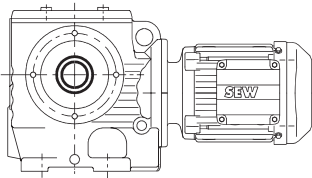
### SHF..DRN..

Helical-worm gearmotor in B5 flange-mounted design with hollow shaft and shrink disk



**SA..DRN..**

Helical-worm gearmotor with hollow shaft

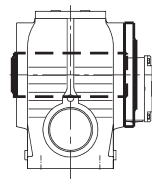
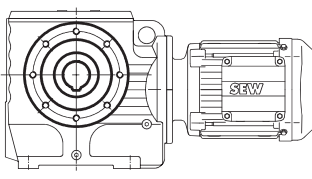


**SH..DRN..**

Helical-worm gearmotor with hollow shaft and shrink disk

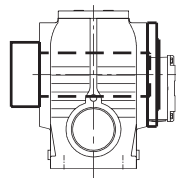
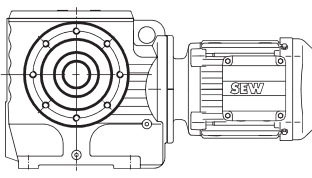
**ST..DRN..**

Helical-worm gearmotor with hollow shaft and TorqLOC® hollow shaft mounting system



**SAZ..DRN..**

Helical-worm gearmotor in B14 flange-mounted design with hollow shaft

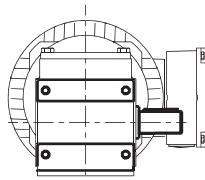
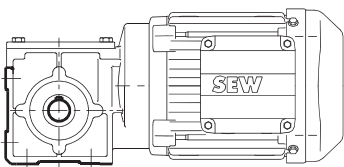


**SHZ..DRN..**

Helical-worm gearmotor in B14 flange-mounted design with hollow shaft and shrink disk

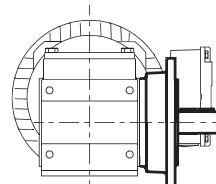
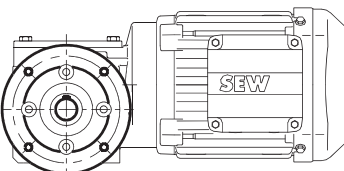
**3.5.7 SPIROPLAN® gearmotors, gear unit sizes W..10, W..20, W..30**

The following designs of SPIROPLAN® gearmotors with gear units in sizes W..10, W..20, and W..30 are available:



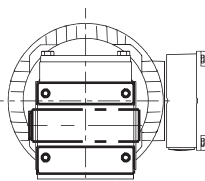
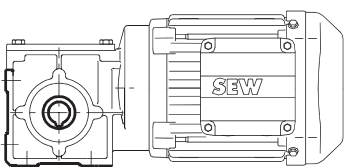
**W10 DRN.., W20 DRN.., W30 DRN..,**

Foot-mounted SPIROPLAN® gearmotor



**WF10 DRN.., WF20 DRN.., WF30 DRN..**

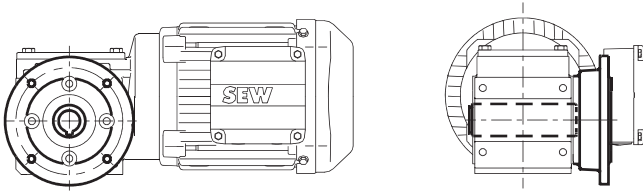
SPIROPLAN® gearmotor in B5 flange mounted design



**WA10 DRN.., WA20 DRN.., WA30 DRN..**

SPIROPLAN® gearmotor with hollow shaft

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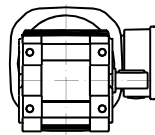
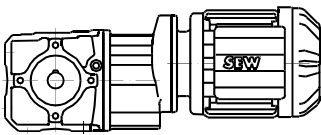


#### WAF10 DRN.., WAF20 DRN.., WAF30 DRN..

SPIROPLAN® gearmotor in B5 flange-mounted design with hollow shaft

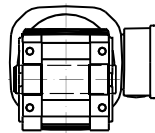
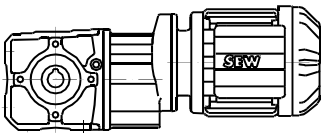
### 3.5.8 SPIROPLAN® gearmotors, gear unit sizes W..37 and W..47

The following designs of SPIROPLAN® gearmotors with gear units in sizes W..37 and W..47 are available:



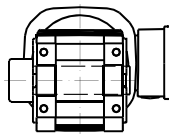
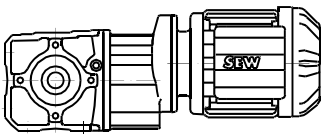
#### W37 DRN.., W47 DRN..

Foot-mounted SPIROPLAN® gearmotor



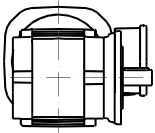
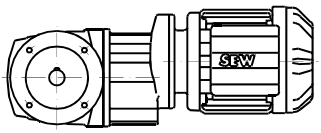
#### WA37B DRN.., WA47B DRN..

Foot-mounted SPIROPLAN® gearmotor with hollow shaft



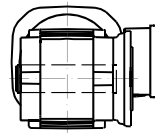
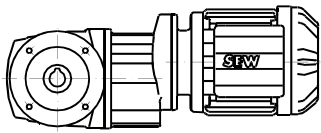
#### WH37B DRN.., WH47B DRN..

Foot-mounted SPIROPLAN® gearmotor with hollow shaft and shrink disk



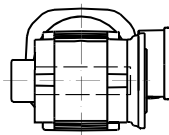
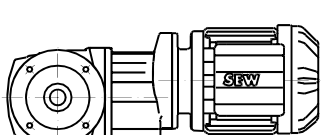
#### WF37 DRN.., WF47 DRN..

SPIROPLAN® gearmotor in B5 flange mounted design



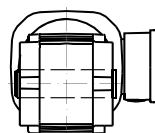
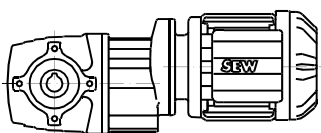
#### WAF37 DRN.., WAF47 DRN..

SPIROPLAN® gearmotor in B5 flange-mounted design with hollow shaft



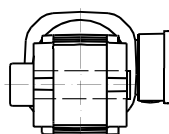
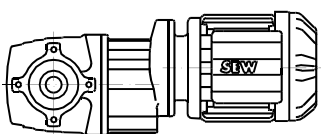
#### WHF37 DRN.., WHF47 DRN..

SPIROPLAN® gearmotor in B5 flange-mounted design with hollow shaft and shrink disk



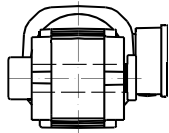
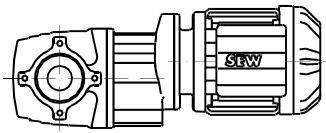
#### WA37 DRN.., WA47 DRN..

SPIROPLAN® gearmotor with hollow shaft



#### WH37 DRN.., WH47 DRN..

SPIROPLAN® gearmotor with hollow shaft and shrink disk



**WT37 DRN.., WT47 DRN..**

SPIROPLAN® gearmotor with hollow shaft and  
TorqLOC® hollow shaft mounting system