



3 Unit Designations and Variants

3.1 Gear unit and options – unit designations

Helical gear units

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

Parallel-shaft helical gear units

Designation	
F..	Foot-mounted design
FA..B	Foot-mounted, hollow shaft
FH..B	Foot-mounted, hollow shaft with shrink disk
FV..B	Foot-mounted, hollow shaft with splined hollow shaft to DIN 5480
FF..	B5 flange-mounted design
FAF..	B5 flange-mounted design and hollow shaft
FHF..	B5 flange-mounted and hollow shaft with shrink disk
FVF..	B5 flange-mounted design and hollow shaft with splined hollow shaft to DIN 5480
FA..	Hollow shaft
FH..	Hollow shaft with shrink disk
FT..	Hollow shaft with TorqLOC [®] hollow shaft mounting system
FV..	Hollow shaft with splining to DIN 5480
FAZ..	B14 flange-mounted design and hollow shaft
FHZ..	B14 flange-mounted and hollow shaft with shrink disk
FVZ..	B14 flange-mounted design and hollow shaft with splined hollow shaft to DIN 5480



Helical-bevel gear units

Designation	
K..	Foot-mounted design
KA..B	Foot-mounted, hollow shaft
KH..B	Foot-mounted, hollow shaft with shrink disk
KV..B	Foot-mounted, hollow shaft with splined hollow shaft to DIN 5480
KF..	B5 flange-mounted design
KAF..	B5 flange-mounted design and hollow shaft
KHF..	B5 flange-mounted and hollow shaft with shrink disk
KVF..	B5 flange-mounted design and hollow shaft with splined hollow shaft to DIN 5480
KA..	Hollow shaft
KH..	Hollow shaft with shrink disk
KT..	Hollow shaft with TorqLOC® hollow shaft mounting system
KV..	Hollow shaft with splining to DIN 5480
KAZ..	B14 flange-mounted design and hollow shaft
KHZ..	B14 flange-mounted and hollow shaft with shrink disk
KVZ..	B14 flange-mounted design and hollow shaft with splined hollow shaft to DIN 5480

Helical-worm gear units

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



Unit Designations and Variants

Gear unit and options – unit designations

Spiroplan® gear units

For all gear unit sizes (W..10 to W..47):

Designation	
W..	Foot-mounted design
WF..	Flange-mounted design
WAF..	Flange-mounted design and hollow shaft
WA..	Hollow shaft

Only for gear unit sizes 37 and 47 (W..37 and W 47):

Designation	
WA..B	Foot-mounted, hollow shaft
WH..B	Foot-mounted, hollow shaft with shrink disk
WHF..	Flange-mounted, hollow shaft with shrink disk
WH..	Hollow shaft with shrink disk
WT..	Hollow shaft with TorqLOC® hollow shaft mounting system

Options

R, F and K gear units:

Designation	
/R	Reduced backlash

K, S and W gear units:

Designation	
/T	With torque arm

F gear units:

Designation	
/G	With rubber buffer

Condition monitoring

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



3.2 Unit designations for AC motors and options

AC motor series

Designation	
DRS..	Motor, standard efficiency, 50 Hz
DRE..	Energy efficient motor, high efficiency, 50 Hz
DRP..	Energy efficient motor, premium efficiency, 50 Hz
...71 to 315	Sizes: 71 / 80 / 90 / 100 / 112, 132 / 160 / 180 / 225 / 315
..K to L	Lengths: K= very short / S = short / M = medium / L = long MC/LC = Lengths of rotors with copper cage
Number of poles	4

Output types

Designation	Option
/FI	IEC foot-mounted motor with specification of shaft height
/FG	7 Series integral motor, as stand-alone motor
/FF	IEC flange-mounted motor with bore holes
/FT	IEC flange motor with threads
/FL	General flange-mounted motor (other than IEC)
/FM	7 series integral gearmotor with IEC feet, with specification of shaft height if required
/FE	IEC flange-mounted motor with bore holes and IEC feet, with specification of shaft height
/FY	IEC flange-mounted motor with thread and IEC feet, with specification of shaft height
/FK	General flange-mounted motor (other than IEC) with feet, with specification of shaft height if required
/FC	C-face flange-mounted motor, dimensions in inch



Unit Designations and Variants

Unit designations for AC motors and options

Mechanical attachments

Designation	Option
BE..	Spring-loaded brake with size specification
HR	Manual brake release of the brake, automatic disengaging function
HF	Manual brake release, lockable
/RS	Backstop
/MSW	MOVI-SWITCH®
/MI	Motor identification for MOVIMOT®
/MM03MM40	MOVIMOT®
/MO	MOVIMOT® option(s)

Temperature sensors/detection

Designation	Option
/TF	Temperature sensor (positive coefficient thermistor or PTC resistor)
/TH	Thermostat (bimetallic switch)
/KY	One KTY84 - 130 sensor
/PT	One / three PT100 sensor(s)

Encoder

Designation	Option
/ES7S /EG7S /EH7S	Mounted speed sensor with sin/cos interface
/ES7R EG7R	Mounted speed sensor with TTL (RS-422) interface, U = 9 - 26 V
/EI7C /EI7S	Mounted speed sensor with HTL or sin/cos interface
/EI76 /EI72 /EI71	Mounted speed sensor with HTL interface and few periods
/AS7W /AG7W	Mounted absolute encoder, RS-485 interface (multi-turn)
/AS7Y /AG7Y /AH7Y	Mounted absolute encoder, SSI interface (multi-turn)
/AI7W	Mounted absolute encoder with SEW interface
/ES7A /EG7A	Mounting adapter for encoders from the SEW portfolio
/XV.A	Mounting adapter for non-SEW encoders
/XV..	Mounted non-SEW encoders



Connection options

Designation	Option
/IS	Integrated plug connector
/ASB.	HAN 10ES plug connector on terminal box with two-clamp closure (cage clamps on motor end)
/ACB.	HAN 10E plug connector on terminal box with two-clamp closure (crimp contacts on motor end)
/AMB. /ABB.	HAN Modular 10B plug connector on terminal box with two-clamp closure (crimp contacts on motor end)
/ASE.	HAN 10ES plug connector on terminal box with single-clamp closure (cage clamps on motor end)
/ACE.	HAN 10ES plug connector on terminal box with single-clamp closure (crimp contacts on motor end)
/AME. /ABE.	HAN Modular 10B plug connector on terminal box with single-clamp closure (crimp contacts on motor end)
/ASK.	HAN 10ES ECOFAST [®] plug connector on terminal box with single-clamp closure (cage clamp on motor end), additionally with mounting screws for optional carrier plate
/KCC	Terminal strip with cage clamps
/KC1	C1 profile compliant connection of the DR80 overhead trolley drive (VDI guideline 3643)

Ventilation

Designation	Option
/V	Forced cooling fan
/Z	Additional inertia (flywheel fan)
/AL	Metal fan
/U	Non-ventilated (without fan)
/OL	Non-ventilated (closed B side)
/C	Protection canopy for the fan guard
/LF	Air filter

Bearing

Designation	Option
/NS	Relubrication device (for DR.315 only)
/ERF	Reinforced bearing A-side with roller bearing (for DR.315 only)
/NIB	Insulated bearing B-side (for DR.315 only)



Unit Designations and Variants

Unit designations for AC motors and options

Condition monitoring

Designation	Option
/DUB	Diagnostic unit brake = brake monitoring
/DUV	Diagnostic Unit Vibration = Vibration sensor

Explosion-proof motors

Designation	Option
/2GD	Motors according to 94/9/EC, category 2 (gas/dust)
/3GD	Motors according to 94/9/EC, category 3 (gas/dust)
/3D	Motors according to 94/9/EC, category 3 (dust)
/VE	Forced-cooling fan for motors according to 94/9/EC, category 3 (gas/dust)

Other additional features

Designation	Option
/DH	Condensation drain hole
/RI	Reinforced winding insulation
/2W	2nd shaft end on the motor/brakemotor



3.3 Sample unit designation for a DR gearmotor

The unit designation of the gearmotor starts from the component on the output end. For instance, a multi-staged helical-bevel gearmotor with thermistor sensor in the motor winding has the following unit designation:

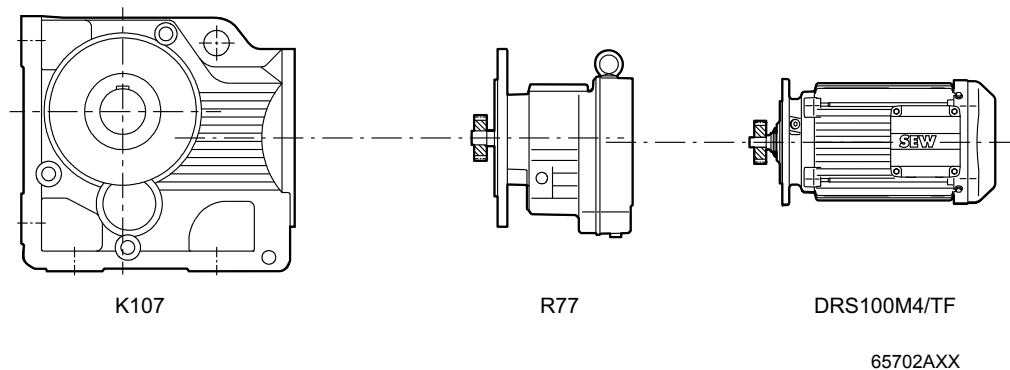
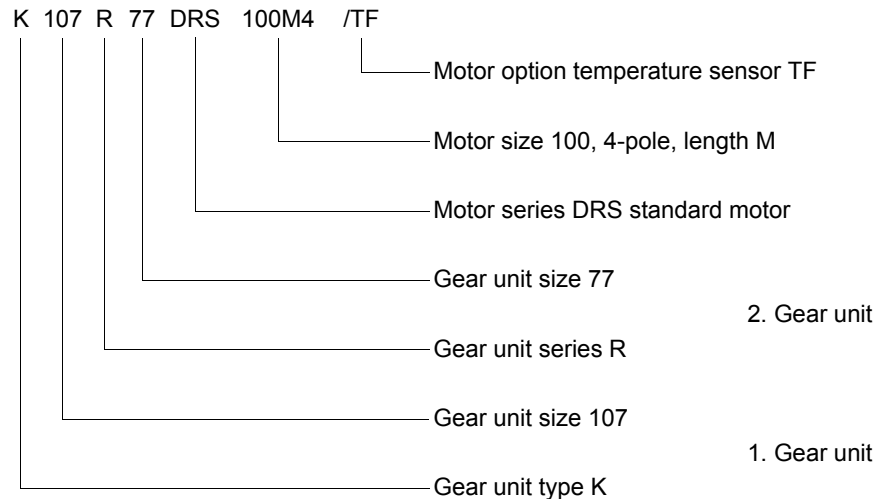


Figure 1: Sample unit designation for a DR gearmotor

Other examples:

- RF 97 /R DRS100M4 BE2 HR
 - Gear unit type: Reduced backlash (/ R) helical gear unit in flange-mounted version
 - Gear unit size: 97
 - Motor series: DRS standard motor
 - Motor size 100M, 4-pole
 - Motor options: BE2 brake with self-reengaging manual brake release (HR)
- FAF 47 /R DRS90L4 BE2 /C
 - Gear unit type: Reduced backlash (/ R) parallel-shaft helical gear unit in B5 flange-mounted version with hollow shaft
 - Gear unit size: 47
 - Motor series: DRS standard motor
 - Motor size 90L, 4-pole
 - Motor options: BE2 brake and protection canopy for the fan guard (/ C)



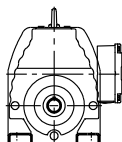
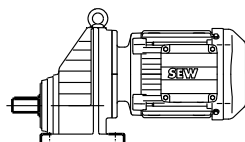
3.4 Gearmotor variants



The types described in this section refer to DR gearmotors from SEW-EURODRIVE. They also apply to gear units without motors (without DR).

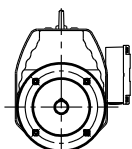
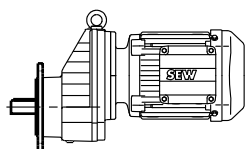
Helical gearmotors

The following versions of helical gearmotors can be supplied:



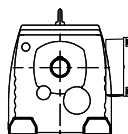
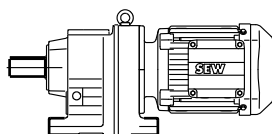
RX..DR..

Foot-mounted single stage helical gearmotor



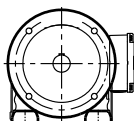
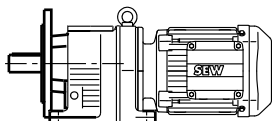
RXF..DR..

Single-stage B5 flange-mounted helical gearmotor



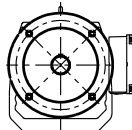
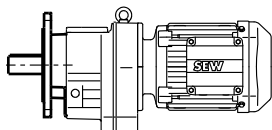
R..DR..

Foot-mounted helical gearmotor



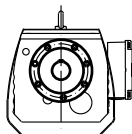
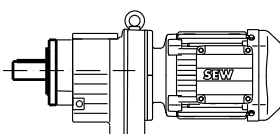
R..F DR..

Foot and B5-flange mounted helical gearmotor



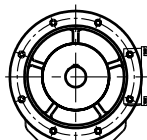
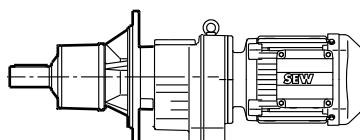
RF..DR..

Helical gearmotor in B5 flange-mounted version



RZ..DR..

Helical gearmotor in B14 flange-mounted version



RM..DR..

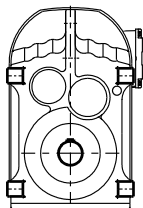
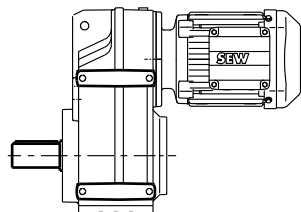
B5 flange-mounted helical gearmotor with extended bearing hub

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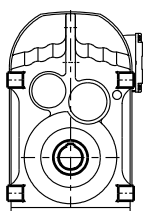
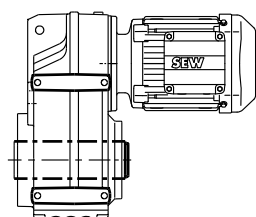
Parallel-shaft helical gearmotors

The following variants of parallel-shaft helical gearmotors can be supplied:



F..DR..

Foot-mounted parallel-shaft helical gearmotor

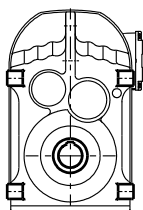
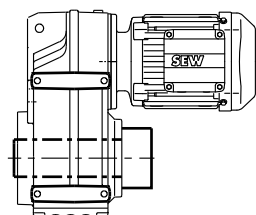


FA..B DR..

Foot-mounted parallel-shaft helical gearmotor with hollow shaft

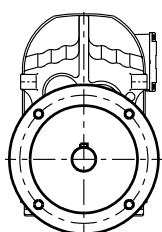
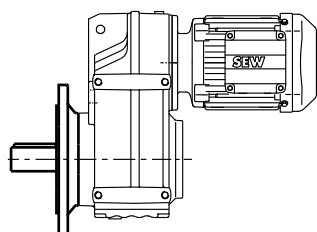
FV..B DR..

Foot-mounted parallel-shaft gearmotor with hollow shaft and splining according to DIN 5480



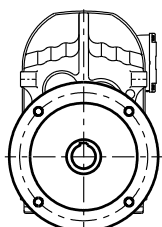
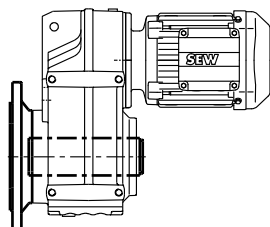
FH..B DR..

Foot-mounted parallel-shaft helical gearmotor with hollow shaft and shrink disk



FF..DR..

B5 flange-mounted parallel-shaft helical gearmotor



FAF..DR..

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

FVF..DR..

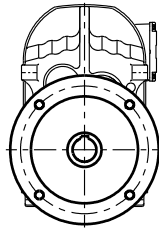
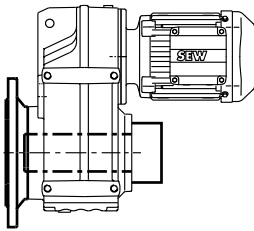
Parallel-shaft helical gearmotor in B5 flange-mounted design with hollow shaft and splining according to DIN 5480

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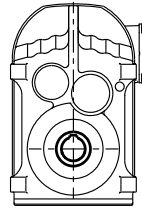
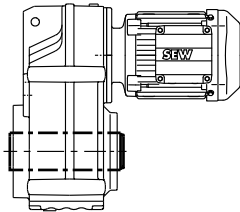
Unit Designations and Variants

Gearmotor variants



FHF..DR..

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

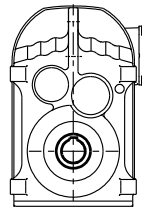
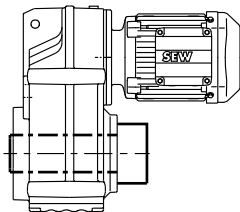


FA..DR..

Parallel-shaft helical gearmotor with hollow shaft

FV..DR..

Parallel-shaft helical gearmotor with hollow shaft and splining according to DIN 5480

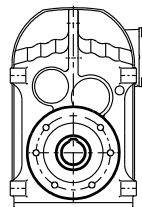
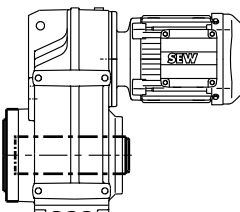


FH..DR..

Parallel-shaft helical gearmotor with hollow shaft and shrink disk

FT..DR..

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

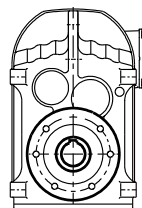
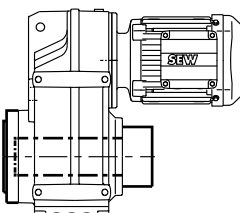


FAZ..DR..

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

FVZ..DR..

Parallel-shaft helical gearmotor in B14 flange-mounted design with hollow shaft and splining according to DIN 5480



FHZ..DR..

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

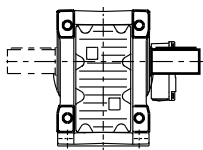
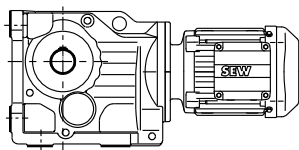
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Helical-bevel gearmotors

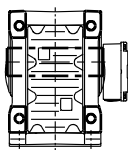
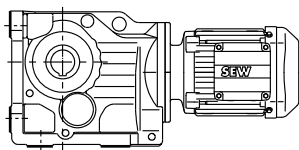
The following types of helical-bevel gearmotors can be supplied:

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K..DR..

Foot-mounted helical-bevel gearmotor

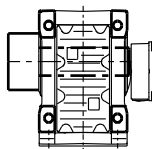
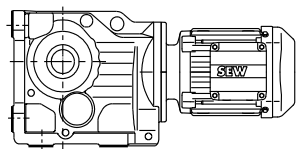


KA..B DR..

Foot-mounted helical-bevel gearmotor with hollow shaft

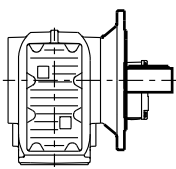
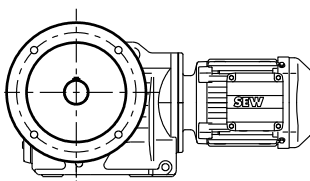
KV..B DR..

Foot-mounted helical-bevel gearmotor unit with hollow shaft and splining according to DIN 5480



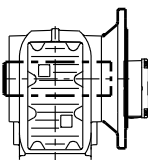
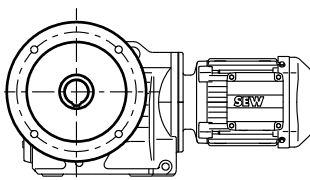
KH..B DR..

Foot-mounted helical-bevel gearmotor with hollow shaft and shrink disk



KF..DR..

Helical-bevel gearmotor in B5 flange-mounted design



KAF..DR..

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

KVF..DR..

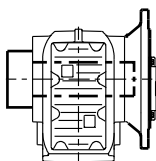
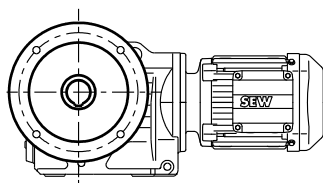
Helical-bevel gearmotor in B5 flange-mounted design with hollow shaft and splining according to DIN 5480

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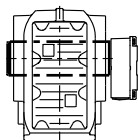
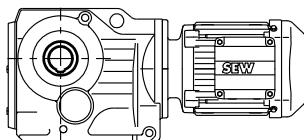
Unit Designations and Variants

Gearmotor variants



KHF..DR..

Helical-bevel gearmotor in B5 flange-mounted version with hollow shaft and shrink disc

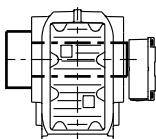
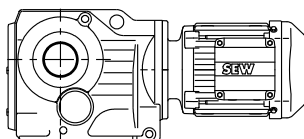


KA..DR..

Helical-bevel gearmotor with hollow shaft

KV..DR..

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

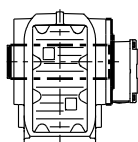
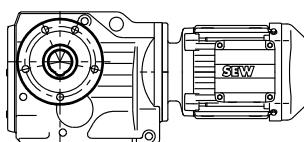


KH..DR..

Helical-bevel gearmotor with hollow shaft and shrink disc

KT..DR..

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

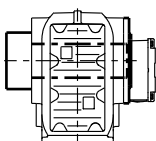
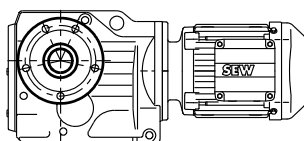


KAZ..DR..

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

KVZ..DR..

Helical-bevel gearmotor in B14 flange-mounted design with hollow shaft and splining according to DIN 5480



KHZ..DR..

Helical-bevel gearmotor in B14 flange-mounted version with hollow shaft and shrink disc

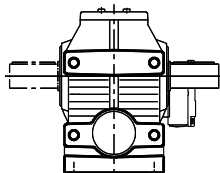
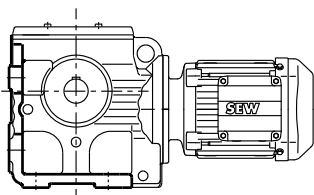
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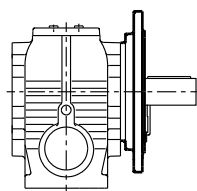
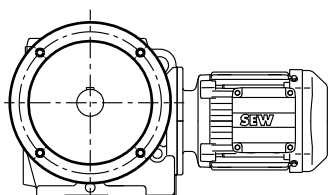
Helical-worm gearmotors

The following types of helical-worm gearmotors are available:

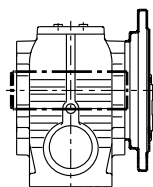
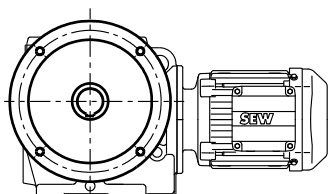
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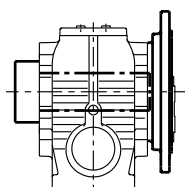
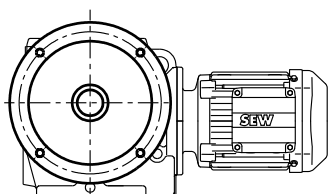
S..DR..
Foot-mounted helical-worm gearmotor



SF..DR..
Helical-worm gearmotor in B5 flange-mounted design



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



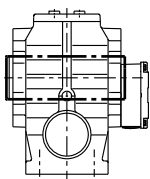
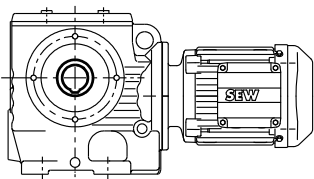
SHF..DR..
Helical-worm gearmotor in B5 flange-mounted design with hollow shaft and shrink disk

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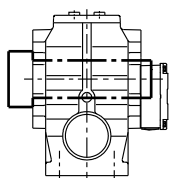
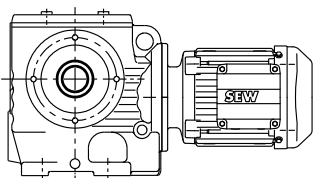
Unit Designations and Variants

Gearmotor variants



SA..DR..

Helical-worm gearmotor with hollow shaft

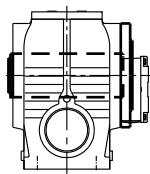
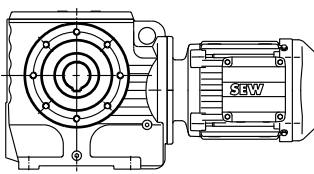


SH..DR..

Helical-worm gearmotor with hollow shaft and shrink disk

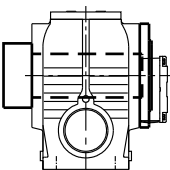
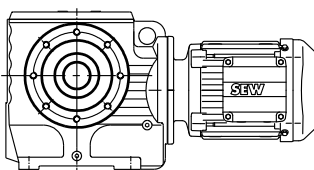
ST..DR..

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



SAZ..DR..

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



SHZ..DR..

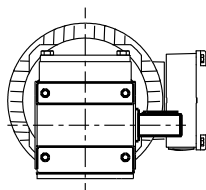
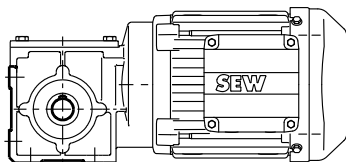
Helical-worm gearmotor in B14 flange-mounted design with hollow shaft and shrink disk

60400AXX



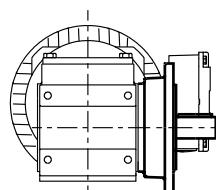
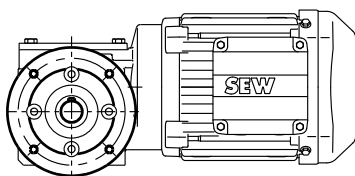
Spiroplan® gear- **motors**

The following variants of Spiroplan® gearmotors size W..10 to W..47 are available:

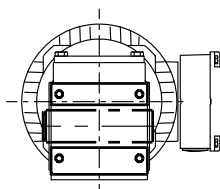
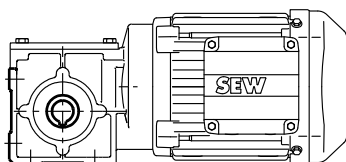


W..DR..
Foot-mounted Spiroplan® gearmotors

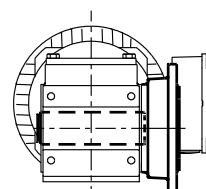
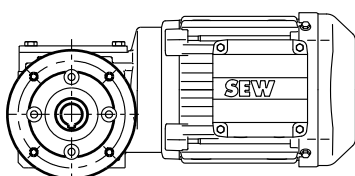
3



WF..DR..
Spiroplan® gearmotor in flange-mounted design



WA..DR..
Spiroplan® gearmotor with hollow shaft



WAF..DR..
Spiroplan® gearmotor in flange-mounted design with hollow shaft

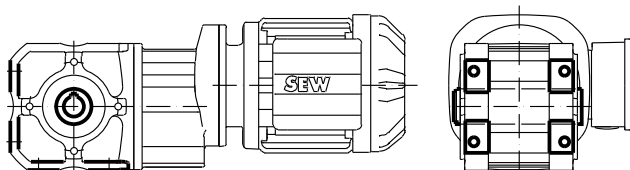
60401AXX



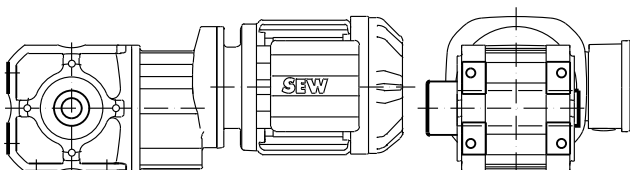
Unit Designations and Variants

Gearmotor variants

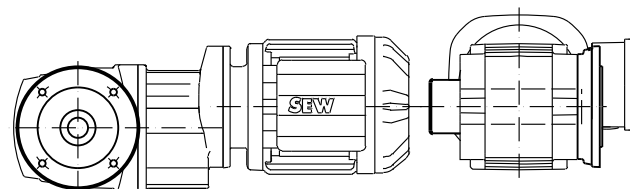
Additionally, the following variants of Spiroplan® gearmotors size W..37 and W..47 are available:



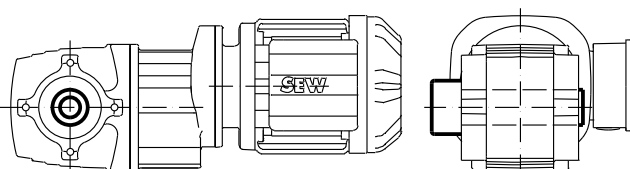
WA..B DR..
Foot-mounted Spiroplan® gearmotor with hollow shaft



WH..B DR..
Foot-mounted Spiroplan® gearmotor with hollow shaft and shrink disk



WHF.. DR..
Spiroplan® gearmotor in flange-mounted design with hollow shaft and shrink disk



WH.. DR..
Spiroplan® gearmotor with hollow shaft and shrink disk

WT.. DR..
Spiroplan® gearmotor with hollow shaft and TorqLOC®

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