



2 Product Description and Overview of Types

Variable speed gearmotors

VARIBLOC® and VARIMOT® variable speed gearmotors are simple and robust drives used for infinitely variable mechanical speed control in a setting range from 1:3 to 1:8. They can be combined with SEW AC motors and reduction gear units to produce variable speed drives with a low output speed and high output torque.

2

Application areas

Variable speed gearmotors are low-cost drives with speed and torque values that can be individually adapted by mounting helical, parallel shaft helical, helical-bevel and helical-worm gear units. They are used in simple materials handling and process engineering applications such as in the chemicals industry, the construction materials industry and in foodstuffs and luxury goods production.

The advantages at a glance

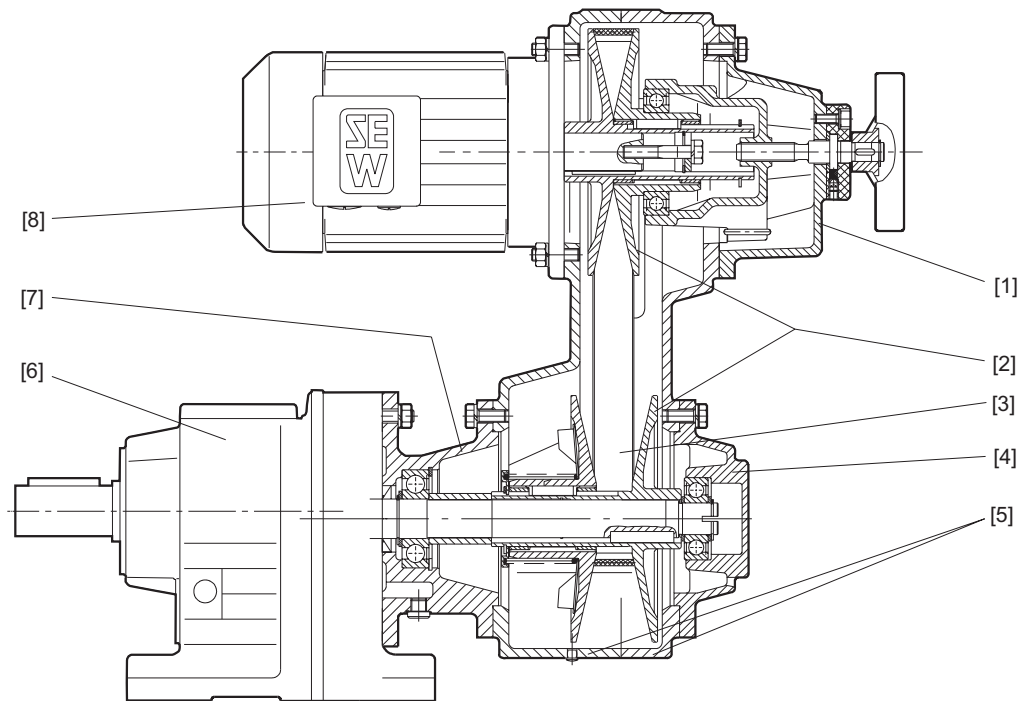
- Robust with increased starting torque
- Large permitted overhung loads of the reduction gear units
- Large number of finely spaced gear ratios of the reduction gear unit, depending on size
- Speed can be adjusted either manually or by remote control
- Speed can be selected even when at a standstill (only VARIMOT®)

Explosion-proof variable speed gearmotors

SEW-EURODRIVE also supplies VARIBLOC® and VARIMOT® variable speed gearmotors for use in potentially explosive atmospheres according to directive 94/9/EC (ATEX 100a). Please contact SEW-EURODRIVE if required.



2.1 VARIBLOC® variable speed gearmotor



52298AXX

- | | |
|---------------------------------------|---|
| [1] Control head for front adjustment | [5] Two-part pulley housing |
| [2] Variable pulleys | [6] Reduction gear unit connected at the output end |
| [3] Wide V-belt | [7] Output flange |
| [4] Bearing cover | [8] Driving motor |

SEW VARIBLOC® variable speed gearmotors are low-maintenance wide V-belt variable speed units with flange-mounted AC motors.

They are used for infinitely variable speed control. They are adjusted using a constrained adjustable variable pulley and a spring-loaded variable pulley. The transmission element is a double-toothed, raw-edged wide V-belt according to DIN 7719.

The speed can be adjusted mechanically, e.g. with a handwheel, or electromechanically using a variable motor.

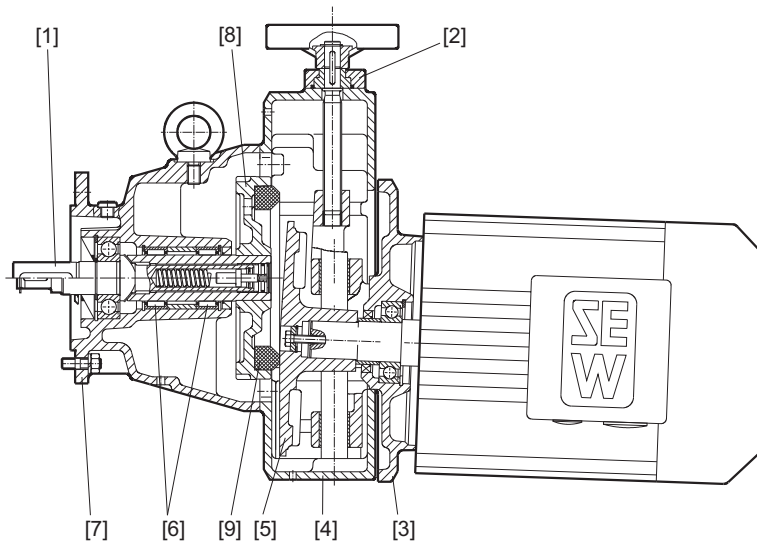
The setting range (1:3 to 1:8) can be extended further by mounting pole-changing motors. VARIBLOC® variable speed gear units are not allowed to be operated with 2-pole motors or at 2-pole speed.

The power flow is U-shaped (type VU) or Z-shaped (type VZ). This means the drives can easily be adapted to different machine designs. The units can easily be converted from one configuration to the other by swapping over the output flange and bearing cover of the VARIBLOC®.



2.2 VARIMOT® variable speed gearmotor

2



52299AXX

- | | |
|---------------------------|---------------------------|
| [1] Complete output shaft | [6] Needle roller bearing |
| [2] Plate | [7] Housing |
| [3] Adjusting plate | [8] Complete hollow shaft |
| [4] Housing cover | [9] Friction ring |
| [5] Driving pulley | |

SEW VARIMOT® variable speed gearmotors (type D) are maintenance-free friction disc gear units with flange-mounted AC motors with or without a brake.

They are used for infinitely variable speed control. The power flow is from the motor via the cone pulley on a shaft, and onto a friction ring to the output shaft. The contact pressure between the driving pulley and the friction ring required for torque transmission is established automatically depending on the torque.

The speed can be adjusted mechanically, e.g. with a handwheel, or electromechanically using a variable motor.

The setting range (1:4 to 1:5) can be extended further by mounting pole-changing motors.



2.3 General information

Power output and torque

The details on power and torque given in the catalog refer to mounting position M1 and similar mounting positions, where the input gear stage does not completely run under oil. In addition, the gearmotors are assumed to be standard versions with standard lubrication and under normal ambient conditions.

Please note that the motor power shown in the gearmotor tables is subject to selection. However, the output torque at the required output speed are essential for the application.

Speeds

The quoted output speeds of the variable speed gearmotors with reduction gear unit on the output end are recommended values. You can calculate the rated output speed from the output speed of the control unit and the gear unit reduction ratio. Please note that the actual output speed depends on the motor load and the supply system conditions.

Noise levels

The noise levels of all variable speed gearmotors are well within the maximum permissible noise levels set forth in the VDI guideline 2159 for gear units and EN 60034 for motors.

Coating

The variable speed gearmotors are painted with "blue gray" machine paint RAL 7031 as per DIN 1843 as standard. Special coatings are available on request.

Surface protection

If required, all variable speed gearmotors can also be supplied with special surface protection (OS1/2/3) for applications in extremely humid and chemically aggressive environments. The following table gives an overview of possible protection types.

	Standard	OS1	OS2	OS3	Z
Description	<ul style="list-style-type: none"> – 1 x dip primer – 1 x one-pack topcoat 	<ul style="list-style-type: none"> – 1 x dip primer – 1 x two-pack base coat – 1 x two-pack varnish 	<ul style="list-style-type: none"> – 1 x dip primer – 2 x two-pack base coat – 1 x two-pack varnish 	<ul style="list-style-type: none"> – 1 x dip primer – 2 x two-pack base coat – 2 x two-pack varnish 	Before coating: Surface recesses are sprayed with a rubber filling
Standard coat thickness	ca. 50 -70 µm	ca. 120 -150 µm	ca. 170 -210 µm	ca. 220 - 270 µm	-
Application	<ul style="list-style-type: none"> – Normal ambient conditions – Relative humidity below 90 % – Surface temperature up to 120 °C – Corrosivity category C1¹⁾ 	<ul style="list-style-type: none"> – Low environmental pollution – Relative humidity max. 95 % – Surface temperature up to 120 °C – Corrosivity category C2¹⁾ 	<ul style="list-style-type: none"> – Medium environmental pollution – Relative humidity up to 100 % – Surface temperature up to 120 °C – Corrosivity category C3¹⁾ 	<ul style="list-style-type: none"> – High environmental pollution – Relative humidity up to 100 % – Surface temperature up to 120 °C – Corrosivity category C4¹⁾ 	Special procedure in addition to OS1/2/3 to avoid corrosion of surface recesses of units installed in particularly harsh environments.

1) according to DIN EN ISO 12 944-2

**Corrosion protection**

In addition to the standard type, SEW offers the following corrosion protection solutions for VARIBLOC® and VARIMOT® variable speed gear units:

- All unmachined internal surfaces have a special coating
- Corrosion protection for variable pulleys in VARIBLOC®
- Hard chromium plated driving pulley in VARIMOT®
- Fastening parts made from non-rusting material

The dimensions of the terminal box on motors with additional internal corrosion protection (feature KS) differ slightly from those of the standard type. Please request a special dimension sheet if required.

Weights Angaben

Please note that all weights shown in the catalog exclude the oil fill for the variable speed gearmotors. The weight varies according to gear unit design and gear unit size. The lubricant fill is dependent on the mounting position, and consequently it is impossible to make any generally valid statements.

Please refer to "Lubricants" in the "Design and Operating Notes" section for recommended lubricant fill quantities depending on the mounting position. The exact weight is given in the order confirmation.

Air admission and accessibility

The variable speed gearmotors must be mounted on the driven machine in such a way that both axially and radially there is enough space left for unimpeded air admission and for the purposes of maintenance of the brake and, if necessary, for service work on the variable speed gear unit. Please also refer to the notes on the motor dimension sheets in this regard.

2.4 Variable speed gearmotor versions**R, F, K, S gearmotors**

The following table shows available types of helical (R), parallel shaft helical (F), helical-bevel (K) and helical-worm (S) variable speed gearmotors.

Version	Variable speed gearmotors			
	Helical (R)	Parallel shaft (F)	Helical-bevel (K) ¹⁾	Worm (S)
Foot-mounted	•	•	•	•
B5 flange	•	•	•	•
Foot-mounted/B5 flange	• ²⁾	•	• ³⁾	–
Hollow shaft with keyway	–	•	•	•
Hollow shaft with shrink disc	–	•	•	•
Splined hollow shaft	–	•	•	–
Hollow shaft with keyway + foot-mounted	–	•	•	–
Hollow shaft with shrink disc + foot-mounted	–	•	•	–
Splined hollow shaft + foot-mounted	–	•	•	–
Hollow shaft with keyway + B5 flange	–	•	•	•
Hollow shaft with shrink disc + B5 flange	–	•	•	•
Splined hollow shaft + B5 flange	–	•	•	–
Hollow shaft with keyway + B14 flange	–	•	•	•
Hollow shaft with shrink disc + B14 flange	–	•	•	•
Splined hollow shaft + B14 flange	–	•	•	–

- Available as standard version

– Not available

¹⁾ Helical-bevel and helical-worm variable speed gearmotors are also available with an additional torque arm

²⁾ Only with R27 - R87 gearmotors



³⁾ Only with K127 - K157 gearmotors

***NOCO® fluid
against corrosion
protection***

As standard, all shaft-mounted gearmotors are supplied with NOCO® fluid, a paste that prevents contact corrosion. Use this paste in accordance with the instructions in the gear unit operating instructions. It facilitates service and stripping down jobs.

RM gearmotors

RM variable speed gearmotors are a special type of helical variable speed gearmotor with an extended output bearing hub. They are specifically designed for agitating applications and can be used in applications subject to high overhung and axial loads as well as flexural torque. The remaining data correspond to the standard helical variable speed gearmotors (→ Sec. "RM gear units").

***Multi-stage
gearmotors***

You can achieve particularly low output speeds by using multi-stage variable speed gearmotors with a multi-stage reduction gear unit. Such a step requires a helical gear unit as a second gear unit.

Brake motors

On request, SEW motors and gearmotors can be supplied with an integrated mechanical brake. The SEW brake is an electromagnetic disc brake with a DC coil that releases electrically and brakes using spring force. The brake can also be released mechanically if equipped with manual brake release. For this purpose, either a hand lever or a setscrew is supplied with the brake. The hand lever springs back automatically and the setscrew is lockable.

A significant feature of the brake is its very short length. The brake bearing end shield is a part of both the motor and the brake. The integrated construction of the brake motor permits particularly compact and sturdy solutions.

***International
markets***

SEW-EURODRIVE is a member of the AGMA (American Gear Manufacturer's Association), and, as such, all its gear units and gearmotors conform to AGMA specifications.

We supply motors for connection conditions according to CSA and NEMA standards on request (registered with UL).

For the Japanese market, we offer motors conforming to JIS standards. Contact your sales representative to assist you in such cases.



2.5 Unit designations for variable speed gear units and options

Variable speed gear unit

VU..	VARIBLOC® variable speed gear unit with U-shaped power flow
VZ..	VARIBLOC® variable speed gear unit with Z-shaped power flow
D..	VARIMOT® variable speed gear unit
..B..	.. with corrosion protection

Optional additional features of VARIBLOC® variable speed gear units

/BMG	With mounted disc brake
../HF	.. with lockable manual brake release
../HR	.. with automatic manual brake release
/LVT	Adapter with hydraulic centrifugal coupling
/U	Non-ventilated
/C	With protection canopy (cannot be combined with display units)
/AR..WS	Adapter with torque limiting coupling and slip monitoring
/ANTRG..	Input shaft assembly

Adjustment device options

/EF	Electromechanical remote speed control
/EFV	Electromechanical remote speed control without variable motor
/EFPA	Electromechanical remote speed control with remote setting indicator
/EFP	Electrom. remote speed control with potentiometer without remote setting indicator (VARIBLOC® only)
/H	Control head with handwheel to DIN 950 (only VARIBLOC®)
/HS	Control head with handwheel and setting indicator
/K	Front adjustment with chain sprocket to DIN 8180
/NV	Control head with exposed shaft-end
/VR	Only adjusting ring (without control head, only VARIBLOC®)

Indicator options

/DA	Digital remote speed indicator
/FA	Analog remote speed indicator, 0 % ...100 % (only VARIBLOC®)
/FD	Analog remote speed indicator, special scale (only VARIBLOC®)
/FL	Analog remote speed indicator for encoder (only VARIBLOC® VU6 and VARIMOT®)
/GW	With AC tachogenerator, without indicator (only VARIBLOC®)
/IG	With encoder without indicator unit
/MU	With measuring transducer
/TW	Richt angle tachometer (only VARIBLOC®)
/TA	Axial tachogenerator (only VARIBLOC®)
/TV	With tacho mounting device (only VARIBLOC®)
/IGV	Prepared for encoder mounting
/IGUX	prepared for encoder mounting (only in explosion-protected areas)
/IGEX	with encoder (only in explosion-protected areas)
/WEX	with encoder (only in explosion-protected areas) and speed monitor



2.6 Gear unit designations

Helical gear units

R..	Foot-mounted version
RF..	Flange-mounted
R..F	Foot and flange-mounted
RM..	Flange-mounted with extended output bearing hub
RX..	Single-stage foot-mounted
RXF..	Single-stage flange-mounted
R..R..	Multi-stage gear units

Parallel shaft helical gear units

F..	Foot-mounted
FA..B	Foot-mounted with hollow shaft
FH..B	Foot-mounted with hollow shaft and shrink disc
FV..B	Foot-mounted with splined hollow shaft to DIN 5480
FF..	B5 flange-mounted
FAF..	B5 flange-mounted and hollow shaft
FHF..	B5 flange-mounted and hollow shaft with shrink disc
FVF..	B5 flange-mounted and splined hollow shaft to DIN 5480
FA..	Hollow shaft
FH..	Hollow shaft with shrink disc
FT..	Hollow shaft with TorqLOC® hollow shaft mounting system
FV..	Splined hollow shaft to DIN 5480
FAZ..	B14 flange-mounted and hollow shaft
FHZ..	B14 flange-mounted and hollow shaft with shrink disc
FVZ..	B14 flange-mounted and splined hollow shaft to DIN 5480
F..R..	Multi-stage gear units

Helical-bevel gear units

K..	Foot-mounted
KA..B	Foot-mounted and hollow shaft
KH..B	Foot-mounted and hollow shaft with shrink disc
KV..B	Foot-mounted and splined hollow shaft to DIN 5480
KF..	B5 flange-mounted
KAF..	B5 flange-mounted and hollow shaft
KHF..	B5 flange-mounted and hollow shaft with shrink disc
KVF..	B5 flange-mounted and splined hollow shaft to DIN 5480
KA..	Hollow shaft
KH..	Hollow shaft with shrink disc
KT..	Hollow shaft with TorqLOC® hollow shaft mounting system
KV..	Splined hollow shaft to DIN 5480
KAZ..	B14 flange-mounted with hollow shaft
KHZ..	B14 flange-mounted with hollow shaft and shrink disc
KVZ..	B14 flange-mounted with splined hollow shaft to DIN 5480
K..R..	Multi-stage gear units

**Helical-worm gear units**

S..	Foot-mounted
SF..	B5 flange-mounted
SAF..	B5 flange-mounted with hollow shaft
SHF..	B5 flange-mounted with hollow shaft and shrink disc
SA..	Foot-mounted and hollow shaft
SH..	Foot-mounted and hollow shaft with shrink disc
ST..	Hollow shaft with TorqLOC® hollow shaft mounting system
SAZ..	B14 flange-mounted with hollow shaft
SHZ..	B14 flange-mounted with hollow shaft and shrink disc
S..R..	Multi-stage gear units

K and S gear unit option

/T	With torque arm
----	-----------------

F gear unit option

/G	With rubber buffer
----	--------------------

2.7 Unit designations for AC motors and options**Standard AC motors, series**

DR.., DT.., DV..	Attached motor for variable speed gear units
------------------	--

AC motor options

/BMG	Brake (reduced noise)
../HF	.. with lockable manual brake release
../HR	.. with automatic manual brake release
/C	Protection canopy for the fan guard
/TF	With thermistor sensor
/TH	With thermostat
/MSW..	MOVI-SWITCH® type (integrated circuit breaker and protective function)

Plug connector on AC motor options

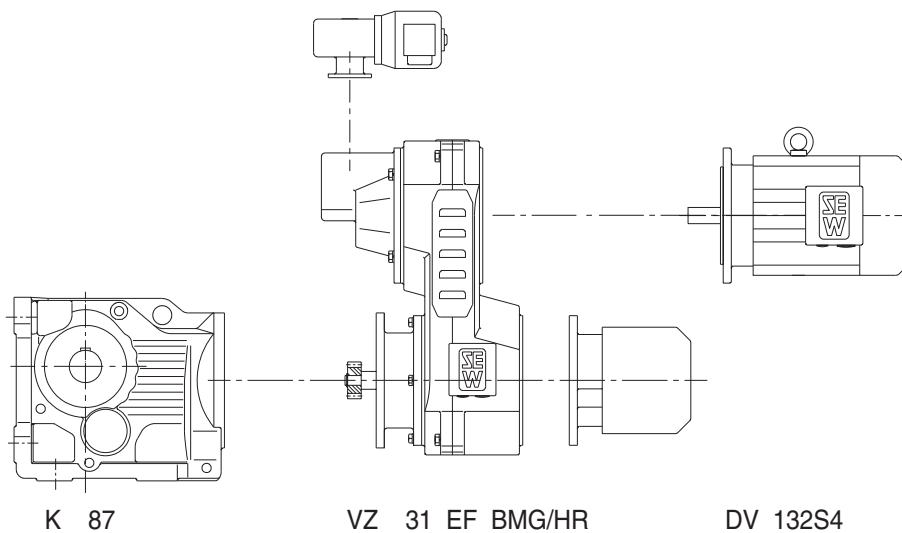
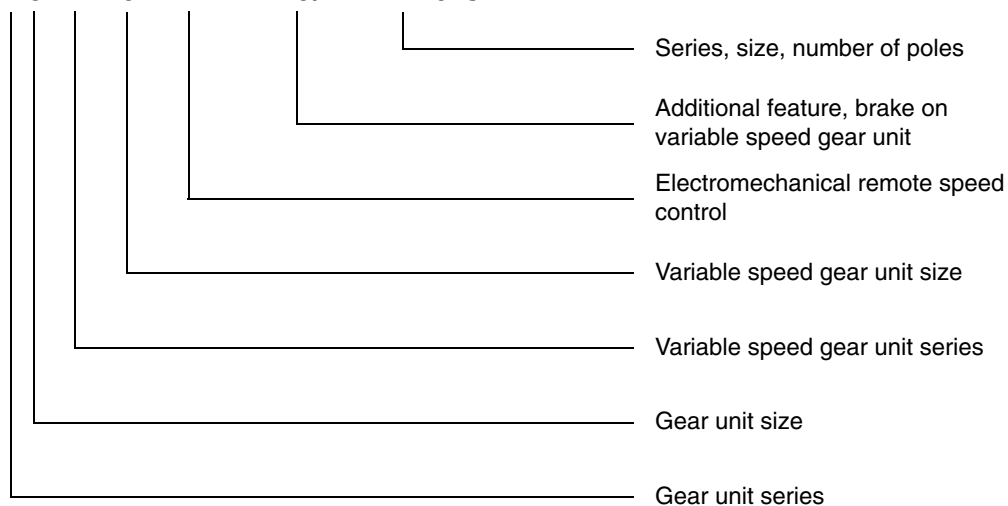
/IS	Integrated plug connector
/AMA1	HAN modular plug connector on terminal box with two-clamp closure
/AMD1	HAN modular plug connector on terminal box with one-clamp closure
/ASA1	HAN 10ES plug connector on terminal box with two-clamp closure
/ASD1	HAN 10ES plug connector on terminal box with one-clamp closure



2.8 Sample unit designation of a variable speed gearmotor

The unit designation of the variable speed gearmotor starts from the component on the output end. For instance, a VARIBLOC® variable speed gearmotor with a helical-bevel gear unit, brake with self-reengaging manual brake release and electromechanical remote speed control has the following unit designation:

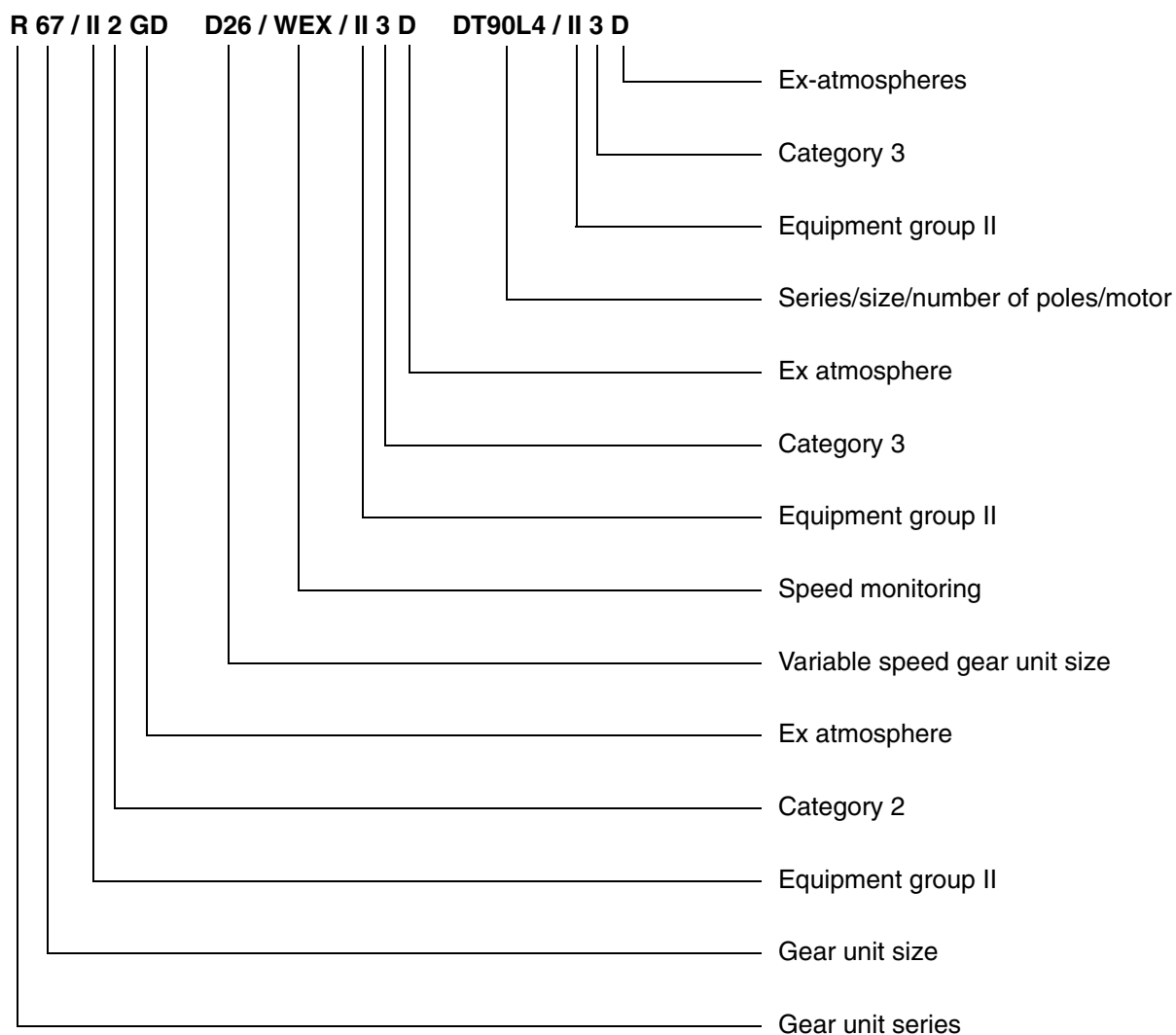
K 87 VZ 31 EF BMG/HR DV132S4



05205AXX



Example for an explosion-protected version:

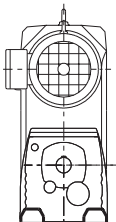
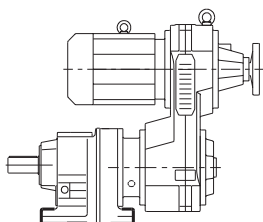




2.9 Versions

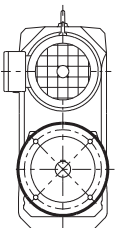
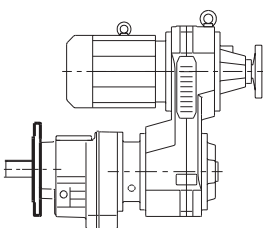
VARIBLOC® with helical gear unit

VARIBLOC® variable speed gearmotors with a helical gear unit can be supplied in the following versions (mounting position VU is shown):



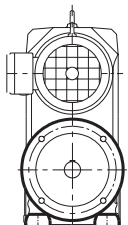
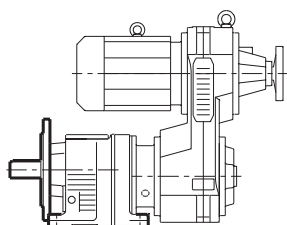
R..VU/VZ..DR/DT/DV..

VARIBLOC® with foot-mounted helical gear unit



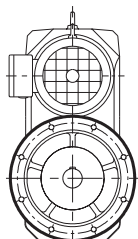
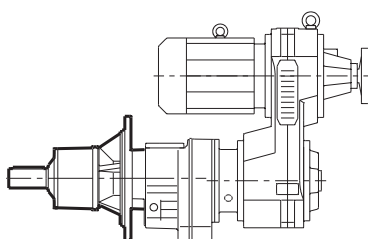
RF..VU/VZ..DR/DT/DV..

VARIBLOC® with flange-mounted helical gear unit



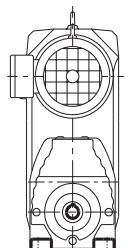
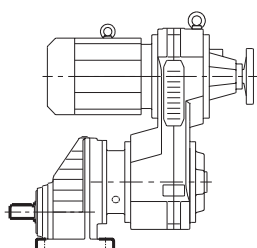
R..F VU/VZ..DR/DT/DV..

VARIBLOC® with foot/flange-mounted helical gear unit (sizes 27 to 87 only)



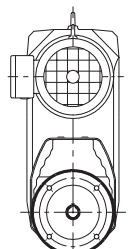
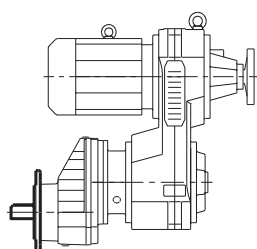
RM..VU/VZ..DR/DT/DV..

VARIBLOC® with flange-mounted helical gear unit and extended bearing hub



RX..VU/VZ..DR/DT/DV..

Single stage variable speed gearmotor with foot-mounted helical gear unit



RXF..VU/VZ..DR/DT/DV..

Single stage variable speed gearmotor with flange-mounted helical gear unit

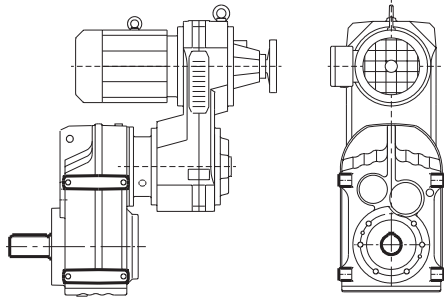
50618AXX



**VARIBLOC® with
parallel shaft
helical gear unit**

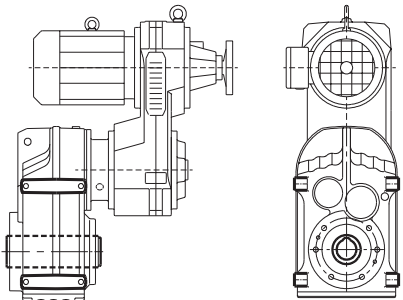
VARIBLOC® variable speed gearmotors with a parallel shaft helical gear unit can be supplied in the following versions:

2



F..VU/VZ..DR/DT/DV..

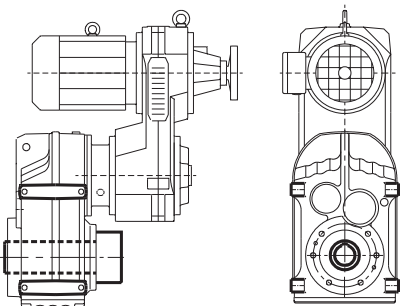
VARIBLOC® with foot-mounted parallel shaft helical gear unit



FA..B VU/VZ..DR/DT/DV..

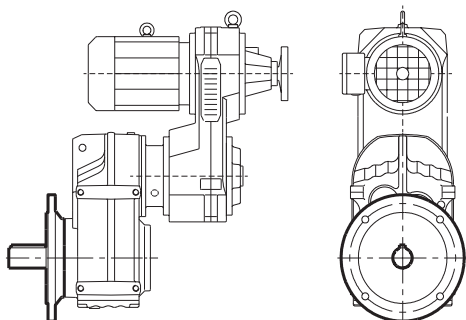
VARIBLOC® with parallel shaft helical gear unit and hollow shaft

Foot-mounted



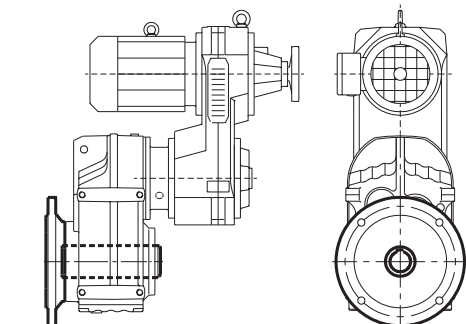
FV..B VU/VZ..DR/DT/DV..

VARIBLOC® with foot-mounted parallel shaft helical gear unit and splined hollow shaft to DIN 5480



FH..B VU/VZ..DR/DT/DV..

VARIBLOC® with foot-mounted parallel shaft helical gear unit and hollow shaft with shrink disc



FF..VU/VZ..DR/DT/DV..

VARIBLOC® with B5 flange-mounted parallel shaft helical gear unit

FAF..VU/VZ..DR/DT/DV..

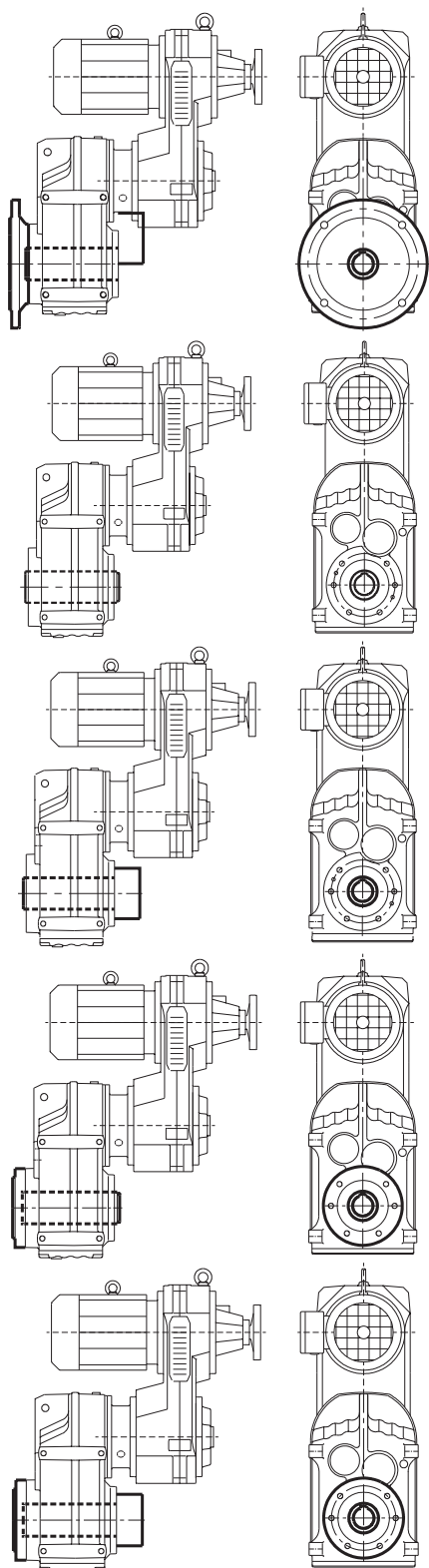
VARIBLOC® with parallel shaft helical gear unit and hollow shaft

B5 flange-mounted

FVF..VU/VZ..DR/DT/DV..

VARIBLOC® with B5 flange-mounted parallel shaft helical gear unit and splined hollow shaft to DIN 5480

50619AXX

**FHF..VU/VZ..DR/DT/DV..**

VARIBLOC® with B5 flange-mounted parallel shaft helical gear unit and hollow shaft with shrink disc

FA..VU/VZ..DR/DT/DV..

VARIBLOC® with parallel shaft helical gear unit and hollow shaft

FV..VU/VZ..DR/DT/DV..

VARIBLOC® with parallel shaft helical gear unit and splined hollow shaft to DIN 5480

FH..VU/VZ..DR/DT/DV..

VARIBLOC® with parallel shaft helical gear unit and hollow shaft
and shrink disc

FT..VU/VZ..DR/DT/DV..

VARIBLOC® with parallel shaft helical gear unit and hollow shaft
TorqLOC® hollow shaft mounting system

FAZ..VU/VZ..DR/DT/DV..

VARIBLOC® with parallel shaft helical gear unit and hollow shaft
in B14 flange-mounted version

FVZ..VU/VZ..DR/DT/DV..

VARIBLOC® with B14 flange-mounted parallel shaft helical gear unit and splined hollow shaft to DIN 5480

FHZ..VU/VZ..DR/DT/DV..

VARIBLOC® with B14 flange-mounted parallel shaft helical gear unit and hollow shaft with shrink disc

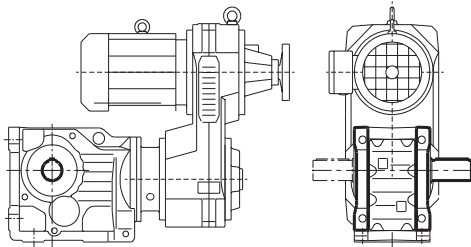
50620AXX



**VARIBLOC® with
helical-bevel gear
unit**

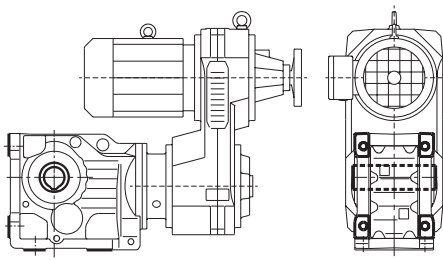
VARIBLOC® variable speed gearmotors with a helical-bevel gear unit can be supplied in the following versions:

2



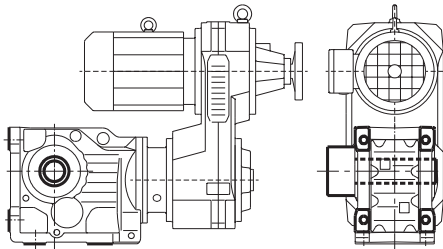
K..VU/VZ..DR/DT/DV..

VARIBLOC® with foot-mounted helical-bevel gear unit



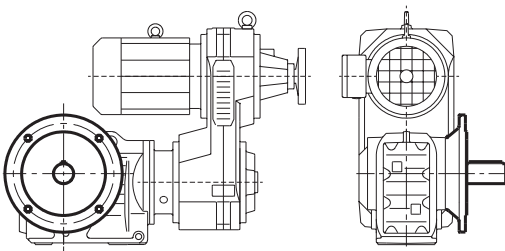
KA..B VU/VZ..DR/DT/DV..

VARIBLOC® with foot-mounted helical-bevel gear unit and hollow shaft



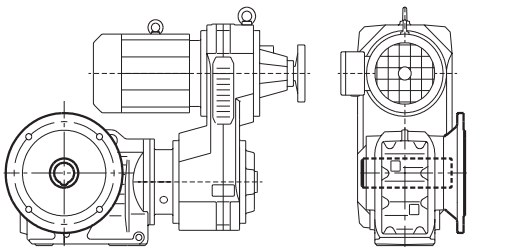
KV..B VU/VZ..DR/DT/DV..

VARIBLOC® with helical-bevel gear unit and splined hollow shaft to DIN 5480 in foot-mounted version



KH..B VU/VZ..DR/DT/DV..

VARIBLOC® with foot-mounted helical-bevel gear unit and hollow shaft with shrink disc



KF..VU/VZ..DR/DT/DV..

VARIBLOC® with B5 flange-mounted helical-bevel gear unit

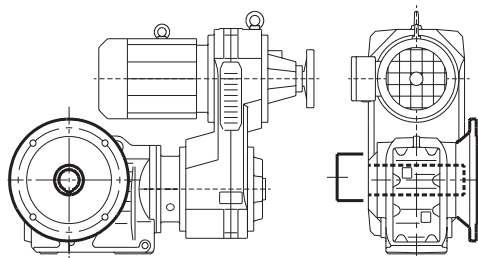
KAF..VU/VZ..DR/DT/DV..

VARIBLOC® with B5 flange-mounted helical-bevel gear unit and hollow shaft

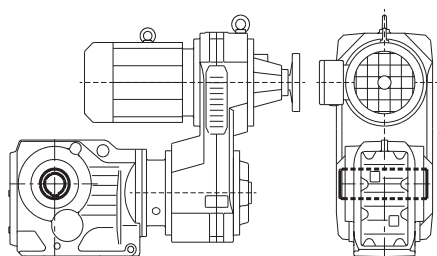
KVF..VU/VZ..DR/DT/DV..

VARIBLOC® with B5 flange-mounted helical-bevel gear unit and splined hollow shaft to DIN 5480

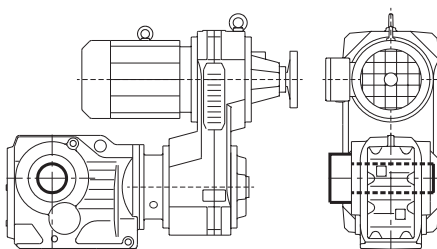
50621AXX

**KHF..VU/VZ..DR/DT/DV..**

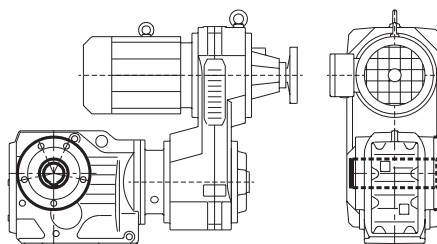
VARIBLOC® with B5 flange-mounted helical-bevel gear unit and hollow shaft with shrink disc

**KA..VU/VZ..DR/DT/DV..**

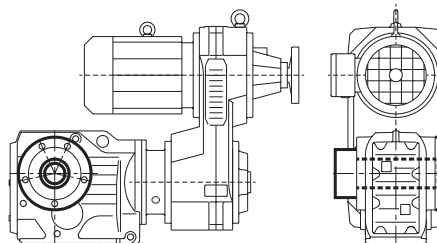
VARIBLOC® with helical-bevel gear unit and hollow shaft

**KV..VU/VZ..DR/DT/DV..**

VARIBLOC® with helical-bevel gear unit and splined hollow shaft to DIN 5480

**KH..VU/VZ..DR/DT/DV..**

VARIBLOC® with helical-bevel gear unit and hollow shaft with shrink disc

**KT..VU/VZ..DR/DT/DV..**

VARIBLOC® with helical-bevel gear unit and hollow shaft and TorqLOC® hollow shaft mounting system

**KAZ..VU/VZ..DR/DT/DV..**

VARIBLOC® with B14 flange-mounted helical-bevel gear unit and hollow shaft

KVZ..VU/VZ..DR/DT/DV..

VARIBLOC® with B14 flange-mounted helical-bevel gear unit and splined hollow shaft to DIN 5480

KHZ..VU/VZ..DR/DT/DV..

VARIBLOC® with B14 flange-mounted helical-bevel gear unit and hollow shaft with shrink disc

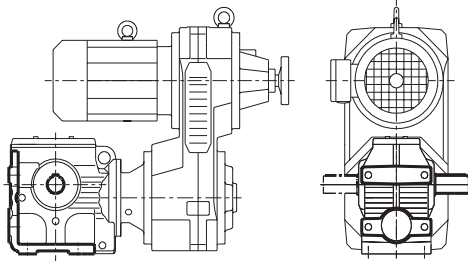
50622AXX



**VARIBLOC® with
helical-worm gear
unit**

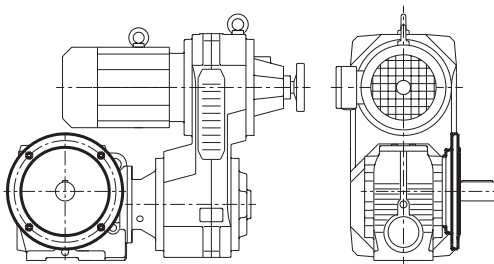
VARIBLOC® variable speed gearmotors with a helical-worm gear unit can be supplied in the following versions:

2



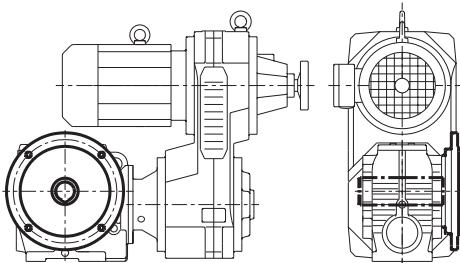
S..VU/VZ..DR/DT/DV..

VARIBLOC® with foot-mounted helical-worm gear unit



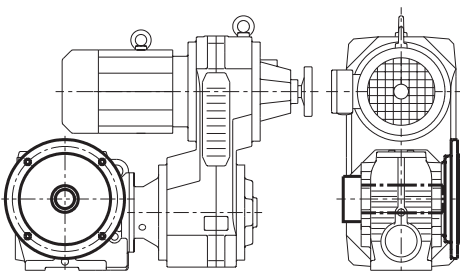
SF..VU/VZ..DR/DT/DV..

VARIBLOC® with flange-mounted helical-worm gear unit



SAF..VU/VZ..DR/DT/DV..

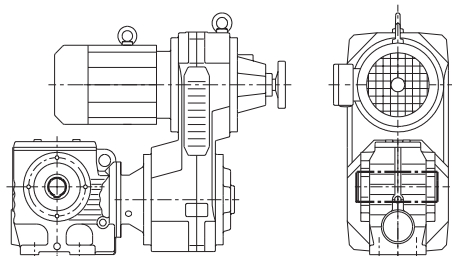
VARIBLOC® with B5 flange-mounted helical-worm gear unit and hollow shaft



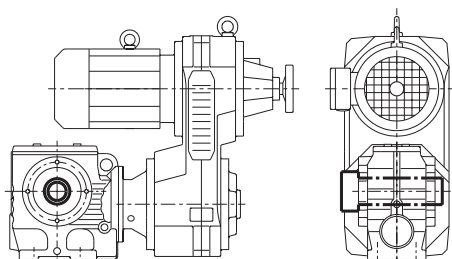
SHF..VU/VZ..DR/DT/DV..

VARIBLOC® with B5 flange-mounted helical-worm gear unit and hollow shaft with shrink disc

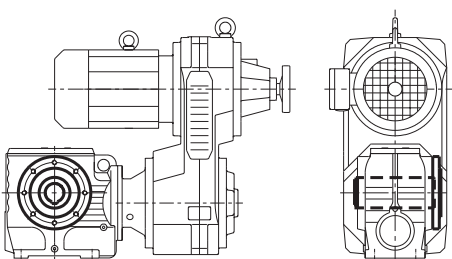
50623AXX

**SA..VU/VZ..DR/DT/DV..**

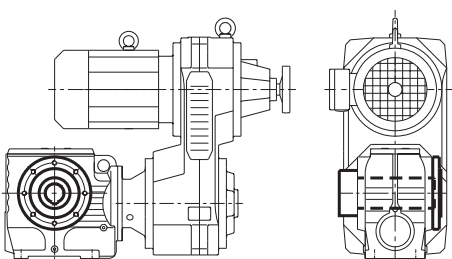
VARIBLOC® with helical-worm gear unit and hollow shaft

**SH..VU/VZ..DR/DT/DV..**

VARIBLOC® with helical-worm gear unit and hollow shaft with shrink disc

**ST..VU/VZ..DR/DT/DV..**

VARIBLOC® with helical-worm gear unit and hollow shaft and TorqLOC® hollow shaft mounting system

**SAZ..VU/VZ..DR/DT/DV..**

VARIBLOC® with B14 flange-mounted helical-worm gear unit and hollow shaft

SHZ..VU/VZ..DR/DT/DV..

VARIBLOC® with B14 flange-mounted helical-worm gear unit and hollow shaft with shrink disc

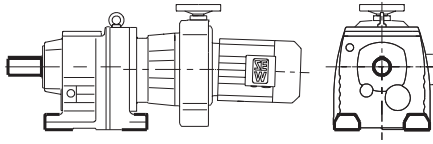
50624AXX



**VARIMOT® with
helical gear unit**

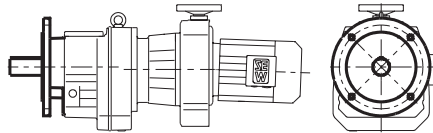
VARIMOT® variable speed gearmotors with a helical gear unit can be supplied in the following versions::

2



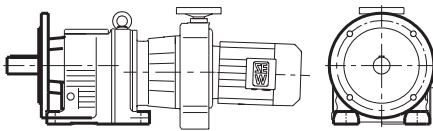
R..D..DT/DV..

VARIMOT® with foot-mounted helical gear unit



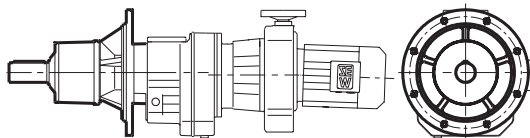
RF..D..DT/DV..

VARIMOT® with flange-mounted helical gear unit



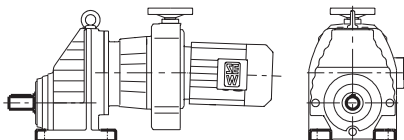
R..F D..DT/DV..

VARIMOT® with foot/flange-mounted helical gear unit
(sizes 27 to 87 only)



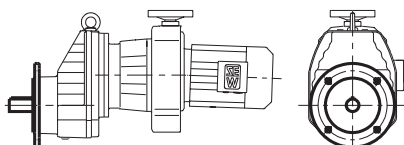
RM..D..DT/DV..

VARIMOT® with flange-mounted helical gear unit and
extended bearing hub



RX..D..DT/DV..

Single stage variable speed gearmotor with foot-mounted
helical gear unit



RXF..D..DT/DV..

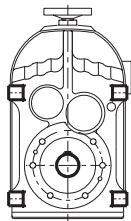
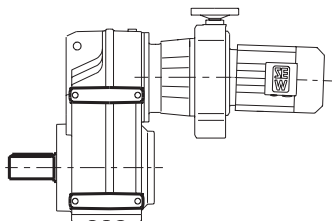
Single stage variable speed gearmotor with flange-
mounted helical gear unit

50641AXX



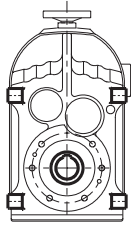
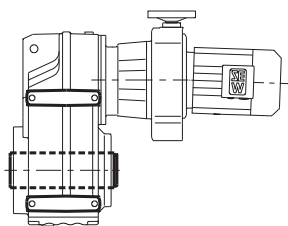
**VARIMOT® with
parallel shaft
helical gear unit**

VARIMOT® variable speed gearmotors with a parallel shaft helical gear unit can be supplied in the following versions:



F..D..DT/DV..

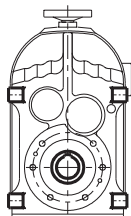
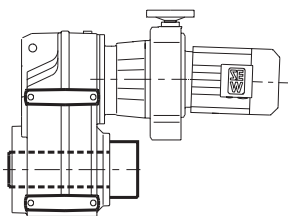
VARIMOT® with foot-mounted parallel shaft helical gear unit



FA..B D..DT/DV..

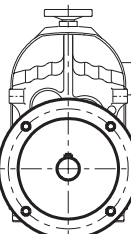
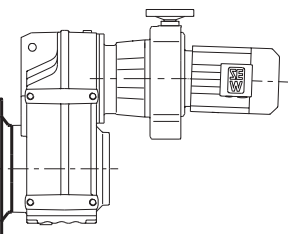
VARIMOT® with parallel shaft helical gear unit and hollow shaft

Foot-mounted



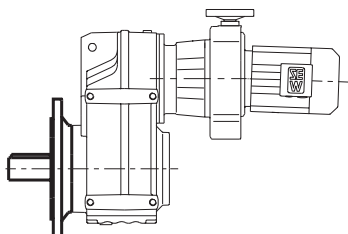
FV..B D..DT/DV..

VARIMOT® with foot-mounted parallel shaft helical gear unit and splined hollow shaft to DIN 5480



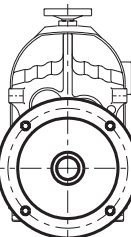
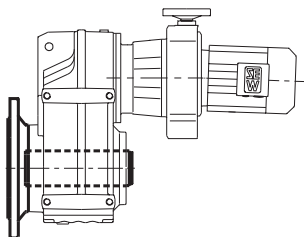
FH..B D..DT/DV..

VARIMOT® with foot-mounted parallel shaft helical gear unit and hollow shaft with shrink disc



FF..D..DT/DV..

VARIMOT® with B5 flange-mounted parallel shaft helical gear unit



FAF..D..DT/DV..

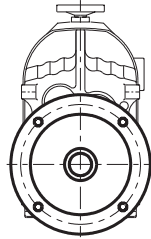
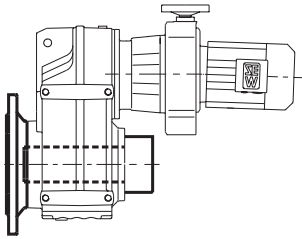
VARIMOT® with parallel shaft helical gear unit and hollow shaft

B5 flange-mounted

FVF..D..DT/DV..

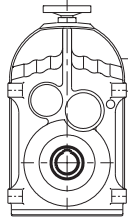
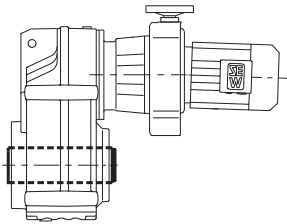
VARIMOT® with B5 flange-mounted parallel shaft helical gear unit and splined hollow shaft to DIN 5480

50640AXX



FHF..D..DT/DV..

VARIMOT® with B5 flange-mounted parallel shaft helical gear unit and hollow shaft with shrink disc

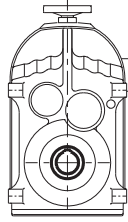
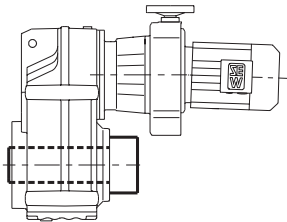


FA..D..DT/DV..

VARIMOT® with parallel shaft helical gear unit and hollow shaft

FV..D..DT/DV..

VARIMOT® with parallel shaft helical gear unit and splined hollow shaft to DIN 5480

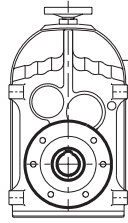
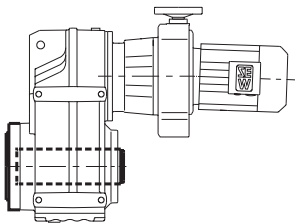


FH..D..DT/DV..

VARIMOT® with parallel shaft helical gear unit and hollow shaft with shrink disc

FT..D..DT/DV..

VARIMOT® with parallel shaft helical gear unit and hollow shaft and TorqLOC® hollow shaft mounting system

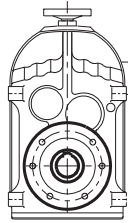
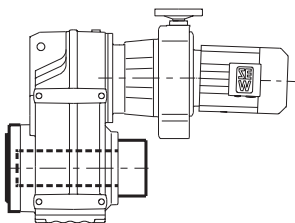


FAZ..D..DT/DV..

VARIMOT® with B14 flange-mounted parallel shaft helical gear unit and hollow shaft

FVZ..D..DT/DV..

VARIMOT® with B14 flange-mounted parallel shaft helical gear unit and splined hollow shaft to DIN 5480



FHZ..D..DT/DV..

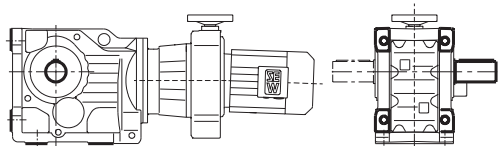
VARIMOT® with B14 flange-mounted parallel shaft helical gear unit and hollow shaft with shrink disc

50642AXX



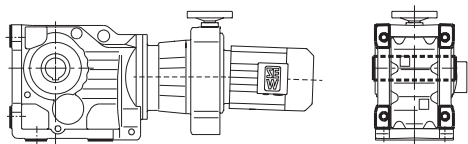
**VARIMOT® with
helical-bevel gear
unit**

VARIMOT® variable speed gearmotors with a helical-bevel gear unit can be supplied in the following versions:



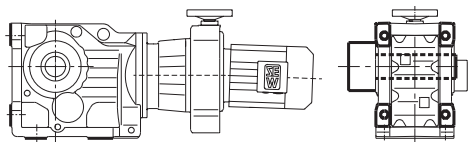
K..D..DT/DV..

VARIMOT® with foot-mounted helical-bevel gear unit



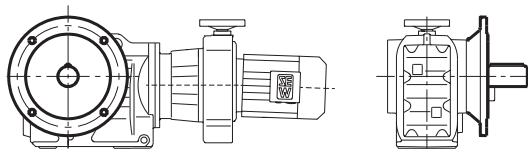
KA..B D..DT/DV..

VARIMOT® with foot-mounted helical-bevel gear unit and hollow shaft



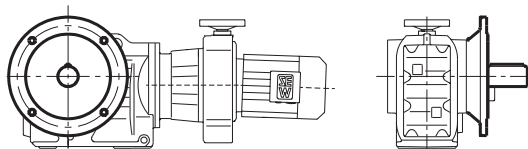
KV..B D..DT/DV..

VARIMOT® with helical-bevel gear unit and splined hollow shaft to DIN 5480 in foot-mounted version



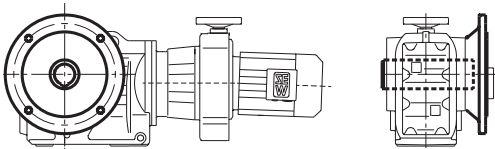
KH..B D..DT/DV..

VARIMOT® with foot-mounted helical-bevel gear unit and hollow shaft with shrink disc



KF..D..DT/DV..

VARIMOT® with B5 flange-mounted helical-bevel gear unit



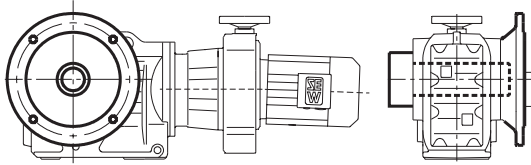
KAF..D..DT/DV..

VARIMOT® with B5 flange-mounted helical-bevel gear unit and hollow shaft

KVF..D..DT/DV..

VARIMOT® with B5 flange-mounted helical-bevel gear unit and splined hollow shaft to DIN 5480

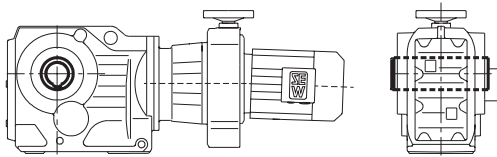
50643AXX



KHF..D..DT/DV..

VARIMOT® with B5 flange-mounted helical-bevel gear unit and hollow shaft with shrink disc

2

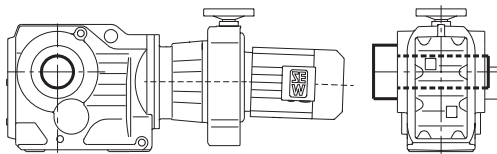


KA..D..DT/DV..

VARIMOT® with helical-bevel gear unit and hollow shaft

KV..D..DT/DV..

VARIMOT® with helical-bevel gear unit and splined hollow shaft to DIN 5480

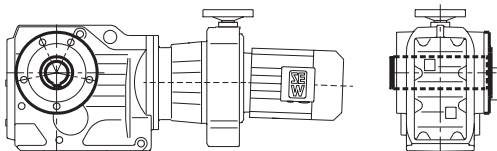


KH..D..DT/DV..

VARIMOT® with helical-bevel gear unit and hollow shaft with shrink disc

KT..D..DT/DV..

VARIMOT® with helical-bevel gear unit and hollow shaft and TorqLOC® hollow shaft mounting system

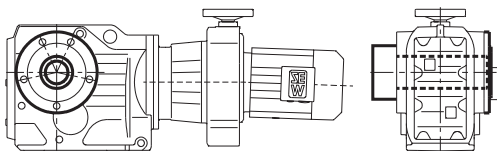


KAZ..D..DT/DV..

VARIMOT® with B14 flange-mounted helical-bevel gear unit and hollow shaft

KVZ..D..DT/DV..

VARIMOT® with B14 flange-mounted helical-bevel gear unit and splined hollow shaft to DIN 5480



KHZ..D..DT/DV..

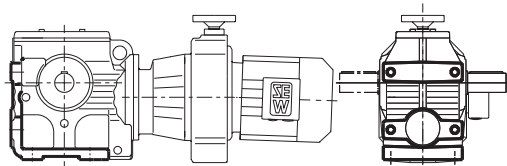
VARIMOT® with B14 flange-mounted helical-bevel gear unit and hollow shaft with shrink disc

50644AXX



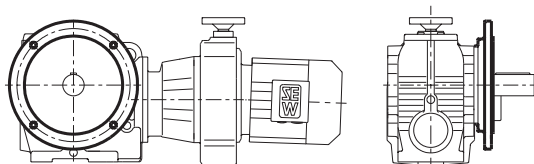
**VARIMOT® with
helical-worm gear
unit**

VARIMOT® variable speed gearmotors with a helical-worm gear unit can be supplied in the following versions:



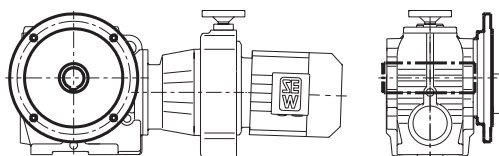
S..D..DT/DV..

VARIMOT® with foot-mounted helical-worm gear unit



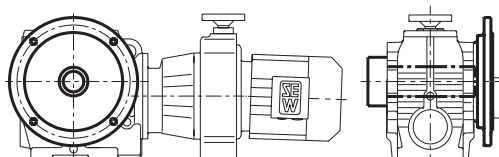
SF..D..DT/DV..

VARIMOT® with flange-mounted helical-worm gear unit



SAF..D..DT/DV..

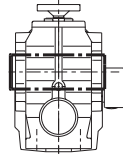
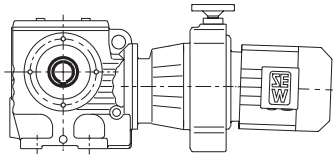
VARIMOT® with B5 flange-mounted helical-worm gear unit and hollow shaft



SHF..D..DT/DV..

VARIMOT® with B5 flange-mounted helical-worm gear unit and hollow shaft with shrink disc

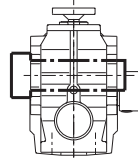
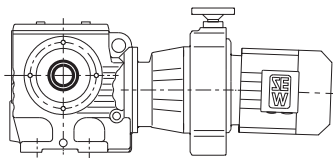
50645AXX



SA..D..DT/DV..

VARIMOT® with helical-worm gear unit and hollow shaft

2

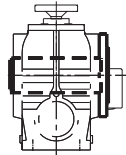
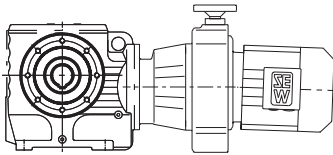


SH..D..DT/DV..

VARIMOT® with helical-worm gear unit and hollow shaft with shrink disc

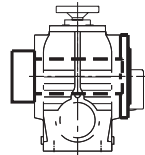
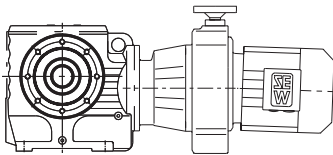
ST..D..DT/DV..

VARIBLOC® with helical-worm gear unit and hollow shaft and TorqLOC® hollow shaft mounting system



SAZ..D..DT/DV..

VARIMOT® with B14 flange-mounted helical-worm gear unit and hollow shaft



SHZ..D..DT/DV..

VARIMOT® with B14 flange-mounted helical-worm gear unit and hollow shaft with shrink disc

50646AXX