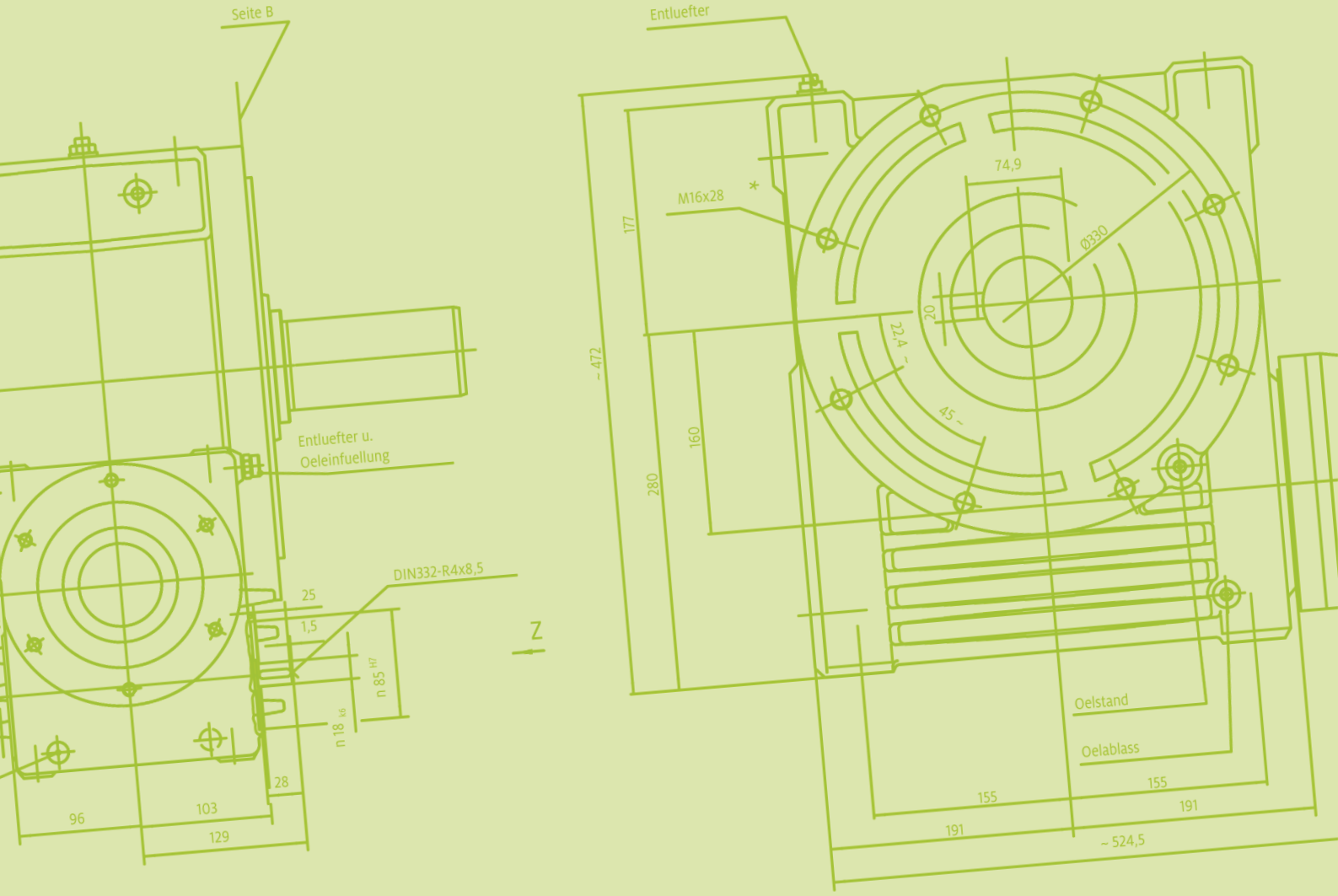
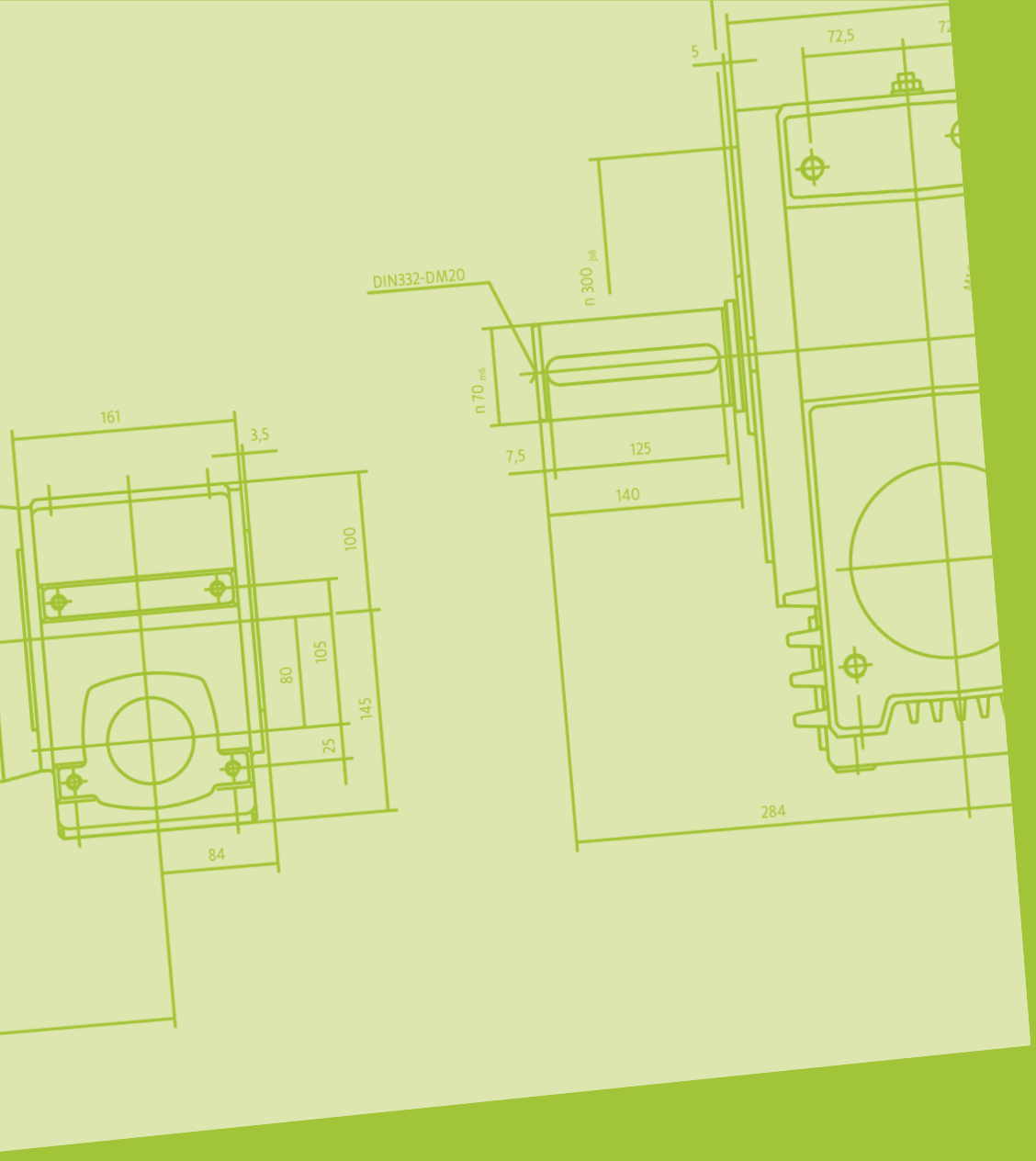


>> MAXIMUM TORQUE IN COMPACT DESIGN

By combining two single-stage worm gear units, significant speed reduction can be achieved in spite of the smaller and compact design. GFC supplies dual stage double worm gear units and double worm gear motors in three sizes with various transmission ratios. The drive unit can be designed as solid shaft or flange with coupling; the output drive as solid shaft, hollow shaft or in combination with an output flange.



GFC

5

Double-worm gear units

Dimension sheets
Size DS 80.1 – DS 315.1

By combining two standard worm gear units (refer to chapter 2), very high transmission ratios can be implemented in a compact design:

Size	Primary Stage*	Main stage	Overall transmission ratio i
DS 80.1	S 40.1	S 80.1	up to 3160
DS 100.1	S 50.1	S 100.1	up to 3320
DS 125.1	S 63.1	S 125.1	up to 4240
DS 160.1	S 80.1	S 160.1	up to 4400
DS 200.1	S 100.1	S 200.1	up to 4280
DS 250.1	S 125.1	S 250.1	up to 3320
DS 315.1	S 160.1	S 315.1	up to 3444

* Helical worm gear units can also be used as primary stage (refer to chapter 3), thus additionally increasing the overall transmission ratio.

Due to the modular design, the different versions and attachments of the respective single stage worm gear units are also available for the dual stage worm gear units:

DS ☐ ☐ Size

Output drive/output:
A ... hollow shafts (various diameters)
AF ... hollow shaft and flange
AS ... hollow shaft for shrink disc
AFS ... hollow shaft for shrink disc and flange
AD ... hollow shaft and torque reaction lever
V ... solid shaft (various diameters)
VF ... solid shaft and flange

Drive unit/input:
V ... solid shaft
M... Motor for direct mounting[1]
K ... Motor flange and solid shaft for coupling (IEC)
P ... Motor flange and primary hollow shaft (IEC)[2]

Dimension sheets are available on request.

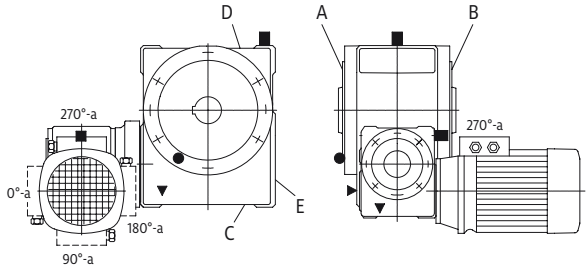
1) Sizes DS80.1 to DS160.1 only / 2) Sizes DS200.1 to DS315.1 only

Service position

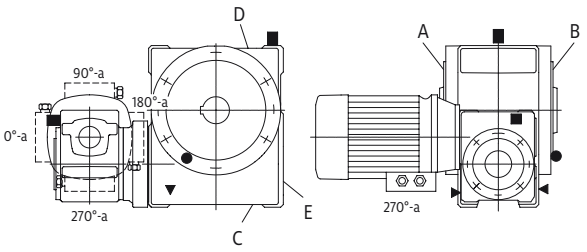
Position of ventilation and oil filling, terminal box and cable inlets

▮ Ventilation and oil filling ● Checking oil level ▼ Oil draining

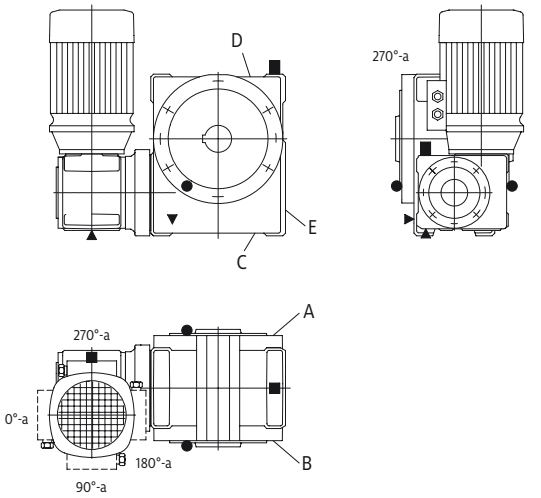
B3/B3



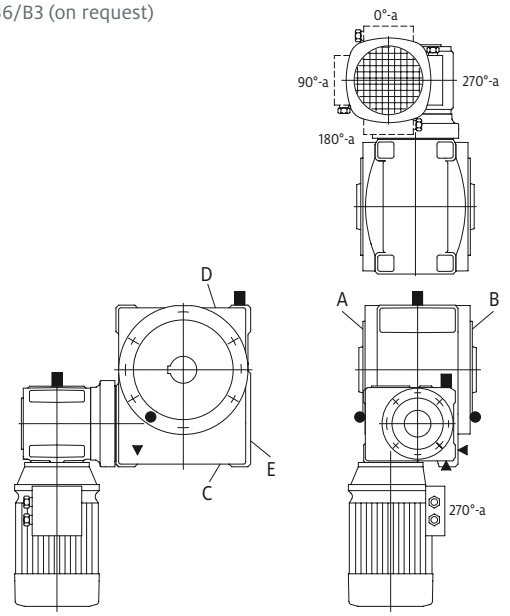
B8/B3



B3I/B3



B6/B3 (on request)



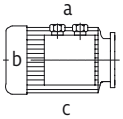
Other service position on request

Side A; B; C; D; E = Fixing possible

Side A; B = Mounting side for the:
- >> Shaft end on the output drive
- >> Flange on the output drive
- >> Torque support on the output drive
- >> Cover hood on the output drive
- >> Shrink disc on the output drive

Position of terminal box:
- >> 0°; 90°; 180°; 270°

Cable insertion at
- >> a
- >> b ... towards the ventilation hood on the motor
- >> c ... across from a



Standard:
- >> 270°-a (shaft end, flange etc. at B)
- >> 270°-c (shaft end, flange etc. at A)