



SEW
EURODRIVE

Revision



Gear Unit Series R..7, F..7, K..7, K..9, S..7, SPIROPLAN® W



1 Revision

INFORMATION



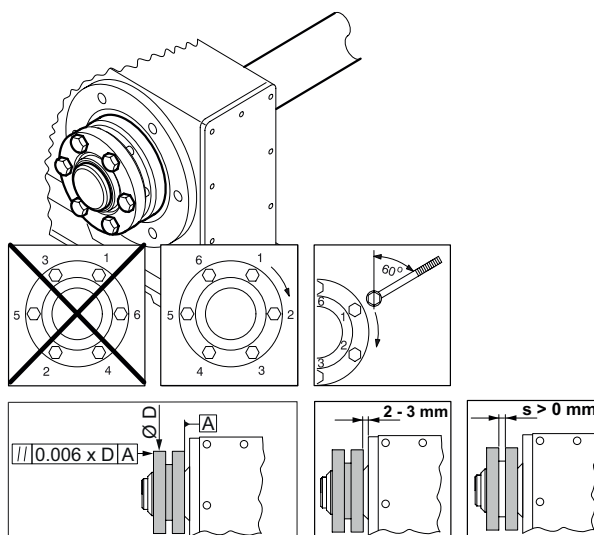
This revision sheet provides updates to the assembly and operating instructions for the "R..7, F..7, K..7, K..9, S..7, SPIROPLAN® W Gear Unit Series". The following chapters were updated:

- Chapter 4.7.1 "Mounting the shaft-mounted gear unit", Step 4 – Installing the input shaft in a gear unit without a shaft shoulder. New distance of the shrink disk from the gear unit housing: 2 – 3 mm.
- Chapter 8.2.2 "Lubricants", Lubricant table (017511704)

1.1 Installing the shaft-mounted gear unit (with shrink disk)

4. Install the shaft. Make sure that the outer rings of the shrink disk are installed in parallel to each other.

- Make sure that the outer rings of the shrink disk are plane-parallel.
- If you have a gear unit with a shaft shoulder, fit the shrink disk onto the shaft shoulder as far as the stop. However, the outer ring of the shrink disk facing the gear unit must have a minimum distance of no less than 2 mm from the gear unit housing.
- In the case of a gear unit without a shaft shoulder, mount the shrink disk at a **distance of 2 – 3 mm** from the gear unit housing.
- Tighten the locking bolts by working round several times from one bolt to the next (not in diametrically opposite sequence). The tightening torques are given in the table below. After mounting, grease the outer surface of the hollow shaft in the area of the shrink disk to provide corrosion protection.



9007199466283275

1.2 Lubricant table (01751 17 04)

NOTICE

Damage to the gear unit due to improper lubricants.

Possible damage to property.

- The oil viscosity and type (mineral/synthetic) to be used are determined by SEW-EURODRIVE specifically for each order. This information is noted in the order confirmation and on the gear unit's nameplate. If you use other lubricants for the gear units and/or use the lubricants at temperatures outside the recommended temperature range, SEW-EURODRIVE does not assume liability.
- The lubricant recommendation in the lubricant table in no way represents a guarantee regarding the quality of the lubricant delivered by each respective supplier. Each lubricant manufacturer is responsible for the quality of their product.
- Do not mix synthetic lubricants.
- Do not mix synthetic lubricants and mineral lubricants.
- Oils of the same viscosity class from different manufacturers do not have the same characteristics. In particular, the minimally and maximally permitted oil bath temperatures are manufacturer-specific. These temperatures are specified in the lubricant tables.
- The values specified in the lubricant tables apply as of the time of printing of this document. The data of the lubricants is subject to dynamic change on the part of the lubricant manufacturers. For the latest information about the lubricants, visit: www.sew-eurodrive.de/lubricants.

1.2.1 Key

The following table shows the abbreviations and symbols used in the lubricant table and explains what they mean:

Abbreviation/symbol	Meaning
	Synthetic lubricant (marked gray)
	Mineral lubricant
CLP	Mineral oil
CLP PG	Polyglycol (PG)
CLP HC	Synthetic hydrocarbons – polyalphaolefin (PAO)
E	Ester-based oil
	Lubricant for the food processing industry and feed industry. Oils are NSF-H1 registered and compliant according to FDA 21 CFR § 178.3570
	Easily biodegradable oil for environmentally sensitive areas
	Lubricant suitable for ATEX environment.
1)	Helical-worm gear units with CLP-PG: Contact SEW-EURODRIVE

Abbreviation/symbol	Meaning
2)	Low-viscosity grease
3)	With appropriate measures, the gear units can be operated at ambient temperatures as low as -40 °C. Contact SEW-EURODRIVE.
RWDR	Oil seal
PSS	Oil seal type Premium Sine Seal (PSS). The addendum "PSS" for the lubricant type indicates compatibility with the sealing system.

1.2.2 Lubricant table for R., F., and K..7 gear units

The lubricant table is valid on the day this document is published. Refer to www.sew-eurodrive.de/lubricants for the latest tables.

Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.

R.: RES K..7 KES HK.: F.:   	[3] °C -50 0 +50 +100 [4]	[1]	[2]	ISO, SAE NLGI	SEW EURODRIVE				Mobil®			
	-15			VG 220	SEW GearOil Base 220 E ¹ SEW070040013		Optigear BM 220	Renolin CLP220 Plus SEW070040013	Mobilgear 600 XP 220 SEW070040013	Klüberoil GEM 1-220 N	Shell Omala S2 G 220	Cater EP 220
	-20			VG 150	SEW GearOil Base 150 E ¹ SEW070040013		Optigear BM 150	Renolin CLP150 Plus SEW070040013	Mobilgear 600 XP 150 SEW070040013	Klüberoil GEM 1-150 N	Shell Omala S2 G 150	Cater EP 150
	-25			VG 220	SEW GearOil Poly 220 E ¹ SEW070040013		Optigear Synthetic 800/220	Renolin PG220	Mobil GLyole 220	Klüberoil GH 6-220	Shell Omala S4 WE 220	Cater SY 220
	-25			VG 220	SEW GearOil Poly 150 E ¹ SEW070040013					Klüberoil GH 6-220		

- [1] Note on special approvals
[2] Oil type

- [3] Ambient temperature range
[4] Standard

Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.

[3] Ambient temperature range
[4] Standard

The lubricant table is valid on the day this document is published. Refer to www.sew-eurodrive.de/lubricants for the latest tables.

Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.

[3] [4] °C -50 0 +50 +100	[1]	[2]	ISO/SAE NLGI	SEW EURODRIVE	brenner & leguit	Castrol	FUCHS	Mobil®	Klüber LUBRICATION	Shell	TOTAL
-15			VG 460		Cassida Fluid GL 460	Optileb GT 460	Cassida Fluid GL 460		Klüberoil 4UH1-460 N		
+40						SEW070040013					
-25			VG 220		Cassida Fluid GL 220	Optileb GT 220	Cassida Fluid GL 220		Klüberoil 4UH1-220 N		
+30						SEW070040013					
-35			VG 68		Cassida Fluid HF 68	Optileb HY 68	Cassida Fluid HF 68		Klüberoil 4UH1-68 N		
0											
-40			VG 32		Cassida Fluid HF 32	Optileb HY 32	Cassida Fluid HF 32		KlüberSummit HySynFG32		
-10											
-15			VG 460			Optileb GT 460					
+40						SEW070040013					
-25			VG 220			Optileb GT 220					
+30						SEW070040013					
-20			VG 460				Plantogear 460 S		Klüberbio CA2-460		
+40											
-20											

[1] Note on special approvals
[2] Oil type

[3] Ambient temperature range
[4] Standard

1.2.3 Lubricant table for K..9 gear units

The lubricant table is valid on the day this document is published. Refer to www.sew-eurodrive.de/lubricants for the latest tables.

Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.

[3] °C -30 0 +50 +100 [4]	[1]	[2]	ISO, SAE NLGI	SEW EURODRIVE	brenner & leguit	Castrol	FUCHS	Mobil®	Indesol Industria Italiana Petroli	Shell	TOTAL

[1] Note on special approvals
[2] Oil type

[3] Ambient temperature range
[4] Standard

1.2.4 Lubricant table for S.. gear units

The lubricant table is valid on the day this document is published. Refer to www.sew-eurodrive.de/lubricants for the latest tables.

Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.

[3] °C -50 0 +50 +100	[1] [2]	ISO SAE NLGI	SEW EURODRIVE	b remer & leguit	Castrol	FUCHS	Mobil®	Klüber LUBRICATION	Shell	TOTAL
[4] 0	CLP	VG 680	SEW GearOil Base 680 S E¹ SEW070040013		Optigear BM 680	Renolin CLP 680 Plus DE FR SEW070040013	Mobilegear 600 XP 680 SEW070040013	Klüberoil GEW 1-680 N -20 +65	Shell Omala S2 G 680 -20 +65	Carter EP 680 0 +80
-20		VG 150	SEW GearOil Base 150 E¹ SEW070040013		Optigear BM150	Renolin CLP 150 Plus -20 +65	Mobilegear 600 XP 150 SEW070040013	Klüberoil GEW 1-150 N -20 +65	Shell Omala S2 G 150 -20 +65	Carter EP 150 -20 +65
[4] -15	CLP PG	¹) VG 680			Optigear Synthetic 800/680	Renolin PG 680 -15 +115	Mobil Glygoyle 680 -15 +115	Klübersynth GH 6-680 -15 +115	Shell Omala S4 WE 680 -15 +115	
-25		¹) VG 220			Optigear Synthetic 800/220	Renolin PG 220 -25 +95	Mobil Glygoyle 220 -25 +100	Klübersynth GH 6-220 -25 +100	Shell Omala S4 WE 220 -25 +90	Carter SY 220 -25 +90
[4] -15	CLP PG - PSS	¹) VG 680						Klübersynth GH 6-680 -15 +115		
-25		¹) VG 220						Klübersynth GH 6-220 -25 +100		

S..
HS.. 

- [1] Note on special approvals
[2] Oil type

- [3] Ambient temperature range
[4] Standard

The lubricant table is valid on the day this document is published. Refer to www.sew-eurodrive.de/lubricants for the latest tables.

Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.

[3] °C -50 0 +50 +100 [4]	[1]	[2]	ISO SAE NLGI	SEW EURODRIVE	b bremer & leguit	Castrol	FUCHS	Mobil®	KUBERN LUBRICATION	Shell	TOTAL
[4] -15 +60	[4] -15 +60	[4] -15 +60	VG 460			Optigear Synthetic PD 460	Renolin Unisyn CLP 460	Mobil SHC 634	Küblersynth GEW 4-460 N	Shell Omala S4 GX 460	Carter SH 460
[4] -30 +30	[4] -30 +30	[4] -30 +30	VG 150 ³⁾			Optigear Synthetic PD 150	Renolin Unisyn CLP 150	Mobil SHC 629	Küblersynth GEW 4-150 N	Shell Omala S4 GX 150	Carter SH 150
[4] -40 +20	[4] -40 +20	[4] -40 +20	VG 68				Renolin Unisyn CLP 68	Mobil SHC 626		Shell Omala S4 GX 68	
[4] -40 0	[4] -40 0	[4] -40 0	VG 32				Renolin Unisyn OL 32	Mobil SHC 624			Dachis SH 32
[4] -15 +60	[4] -15 +60	[4] -15 +60	VG 460					Mobil SHC 634			
[4] -30 +30	[4] -30 +30	[4] -30 +30	VG 150 ³⁾					Mobil SHC 629			

S..

HS..



- [1] Note on special approvals
[2] Oil type

- [3] Ambient temperature range
[4] Standard

The lubricant table is valid on the day this document is published. Refer to www.sew-eurodrive.de/lubricants for the latest tables.

Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.

[3] °C -50 0 +50 +100 [4]	[1] [2]	ISO SAE NLGI	SEW EURODRIVE	b bremer & leguit	Castrol	FUCHS	Mobil®	Klüber Lubrication	Shell	Total
-15	[1] [2]	VG 460		Cassida Fluid GL 460	Optileb GT 460 SEW070040013			Klüberoil 4UH1-460 N		
+40										
-25	[1] [2]	VG 220		Cassida Fluid GL 220	Optileb GT 220 SEW070040013			Klüberoil 4UH1-220 N		
+30										
-35	[1] [2]	VG 68		Cassida Fluid HF 68	Optileb HY 68 SEW070040013			Klüberoil 4UH1-68 N		
+10										
-40	[1] [2]	VG 32		Cassida Fluid HF 32	Optileb HY 32 SEW070040013			KlüberSummit HySyn FG 32		
-10										
-15	[1] [2]	VG 460			Optileb GT 460 SEW070040013					
+40										
-25	[1] [2]	VG 220			Optileb GT 220 SEW070040013					
+30										
-20	[1] [2]	VG 460				Plantogear 460 S		Klüberbio CA2-460		
+40										

[1] Note on special approvals
[2] Oil type

[3] Ambient temperature range
[4] Standard

1.2.5 Lubricant table for W.. gear units

The lubricant table is valid on the day this document is published. Refer to www.sew-eurodrive.de/lubricants for the latest tables.

Observe the thermal limit of the oil seal material, see chapter Compatibility of lubricants with oil seals.

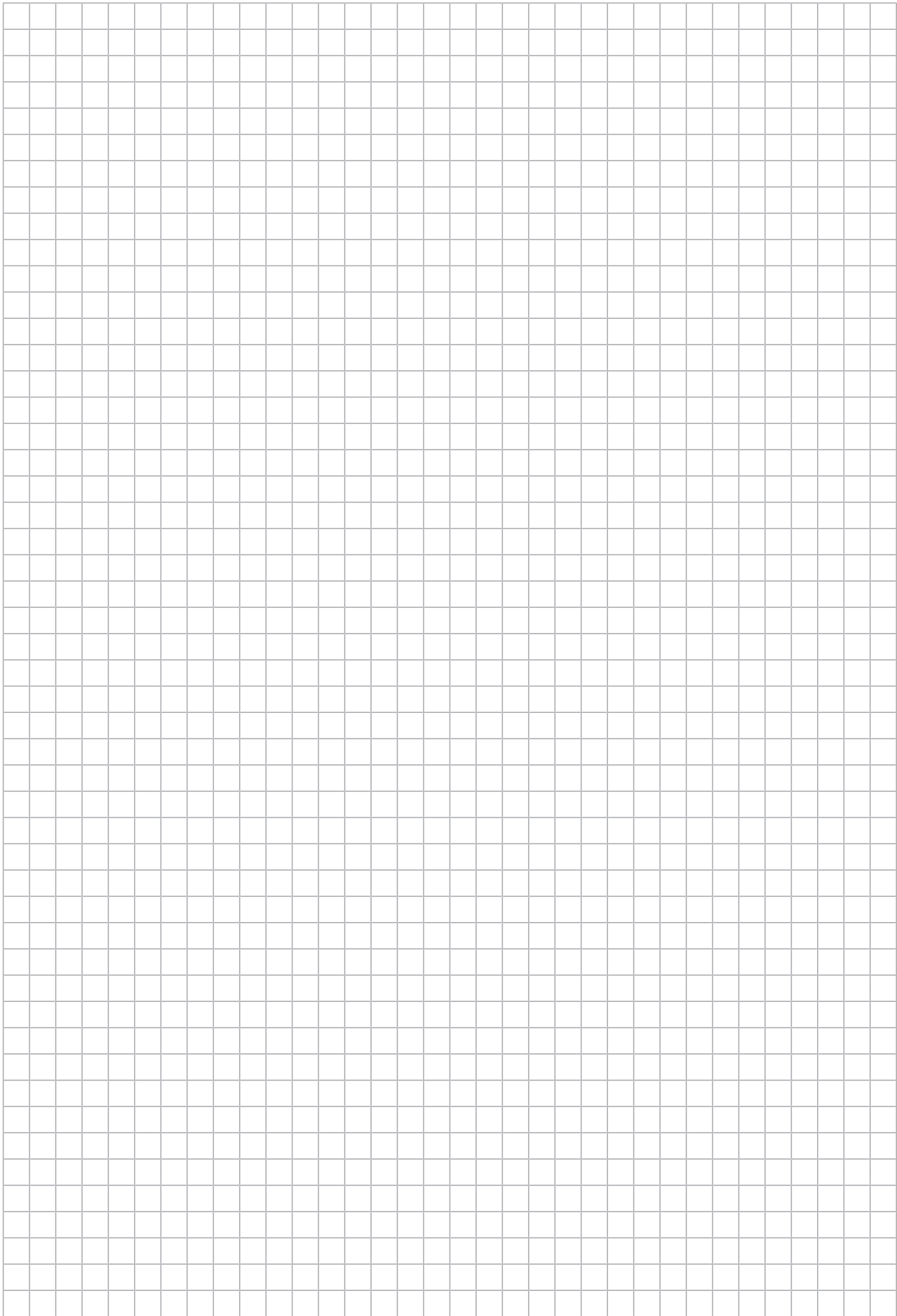
W.. HW.. 	[3] °C -50 0 +50 +100	[1] 	[2] CLP PG	ISO/SAE NLGI	SEW EURODRIVE	Greiner & Leguit	Castrol	FUCHS	Mobil	KLÜBER lubrication	Shell	TOTAL
W.. HW.. 	[3] °C -50 0 +50 +100	[1] 	[2] CLP PG	ISO/SAE NLGI	SEW EURODRIVE	Greiner & Leguit	Castrol	FUCHS	Mobil	KLÜBER lubrication	Shell	TOTAL
W.. HW.. 	[3] °C -50 0 +50 +100	[1] 	[2] CLP PG	ISO/SAE NLGI	SEW EURODRIVE	Greiner & Leguit	Castrol	FUCHS	Mobil	KLÜBER lubrication	Shell	TOTAL
W.. HW.. 	[3] °C -50 0 +50 +100	[1] 	[2] CLP PG	ISO/SAE NLGI	SEW EURODRIVE	Greiner & Leguit	Castrol	FUCHS	Mobil	KLÜBER lubrication	Shell	TOTAL
W.. HW.. 	[3] °C -50 0 +50 +100	[1] 	[2] CLP PG	ISO/SAE NLGI	SEW EURODRIVE	Greiner & Leguit	Castrol	FUCHS	Mobil	KLÜBER lubrication	Shell	TOTAL

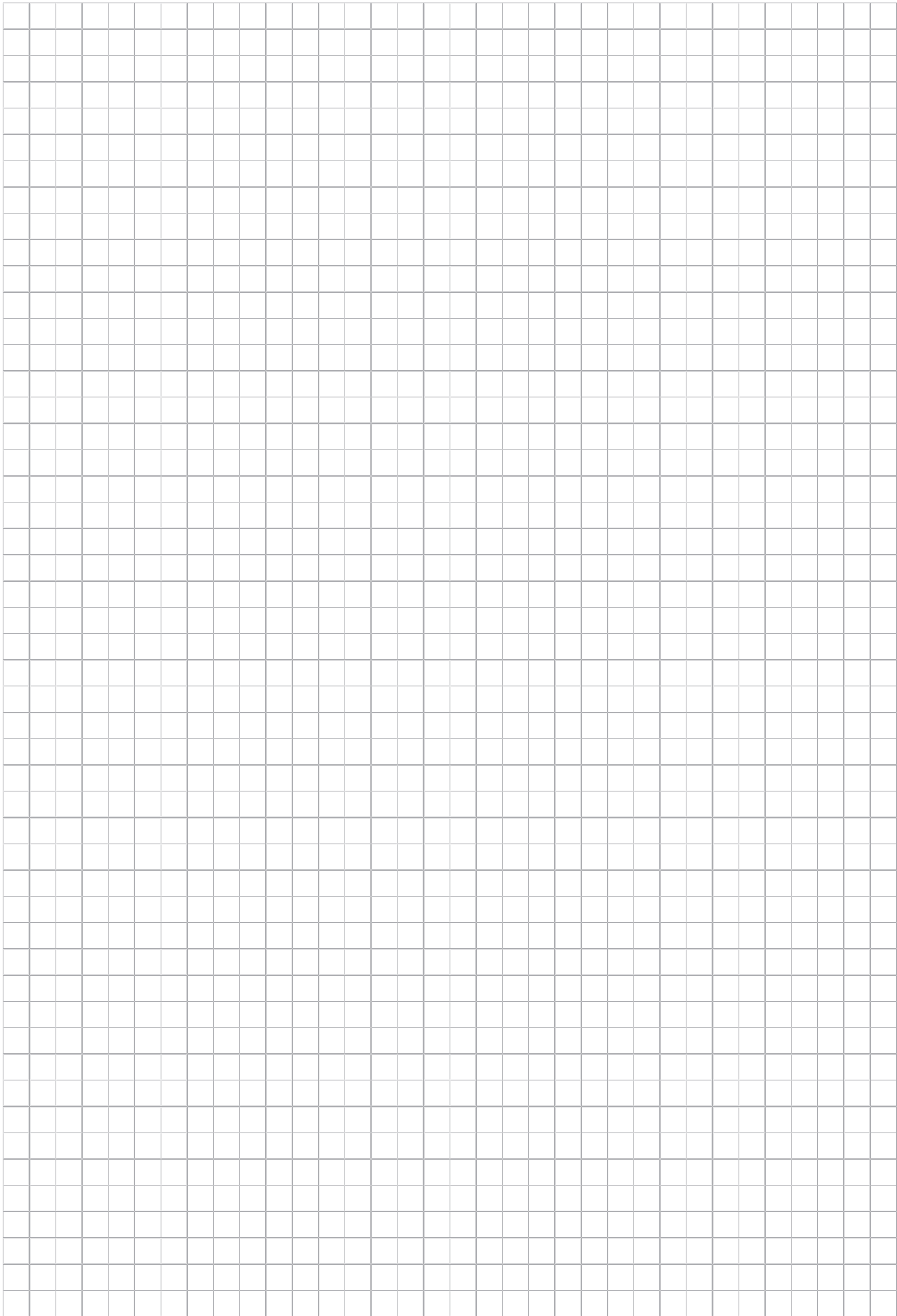
[1] Note on special approvals

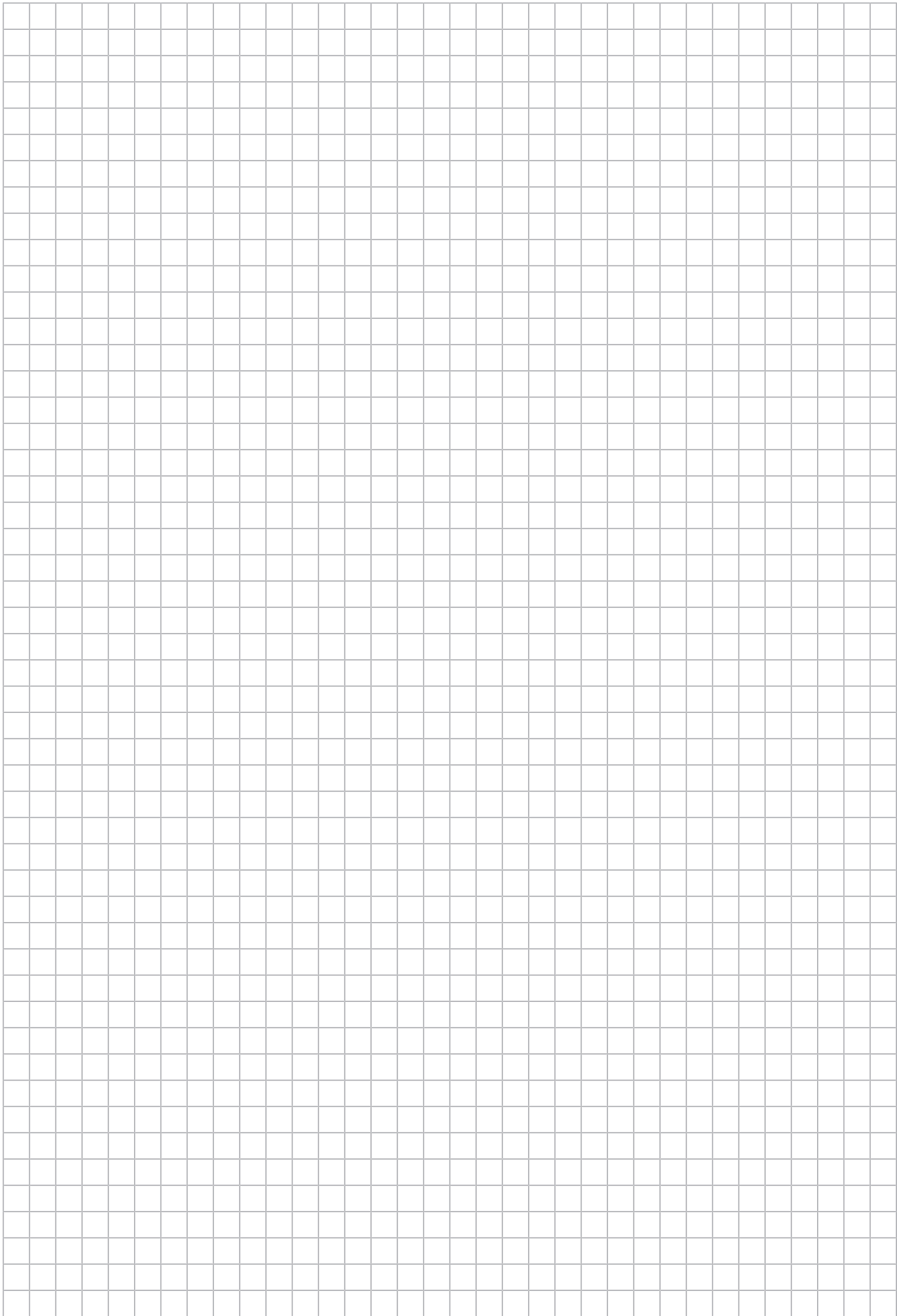
[2] Oil type

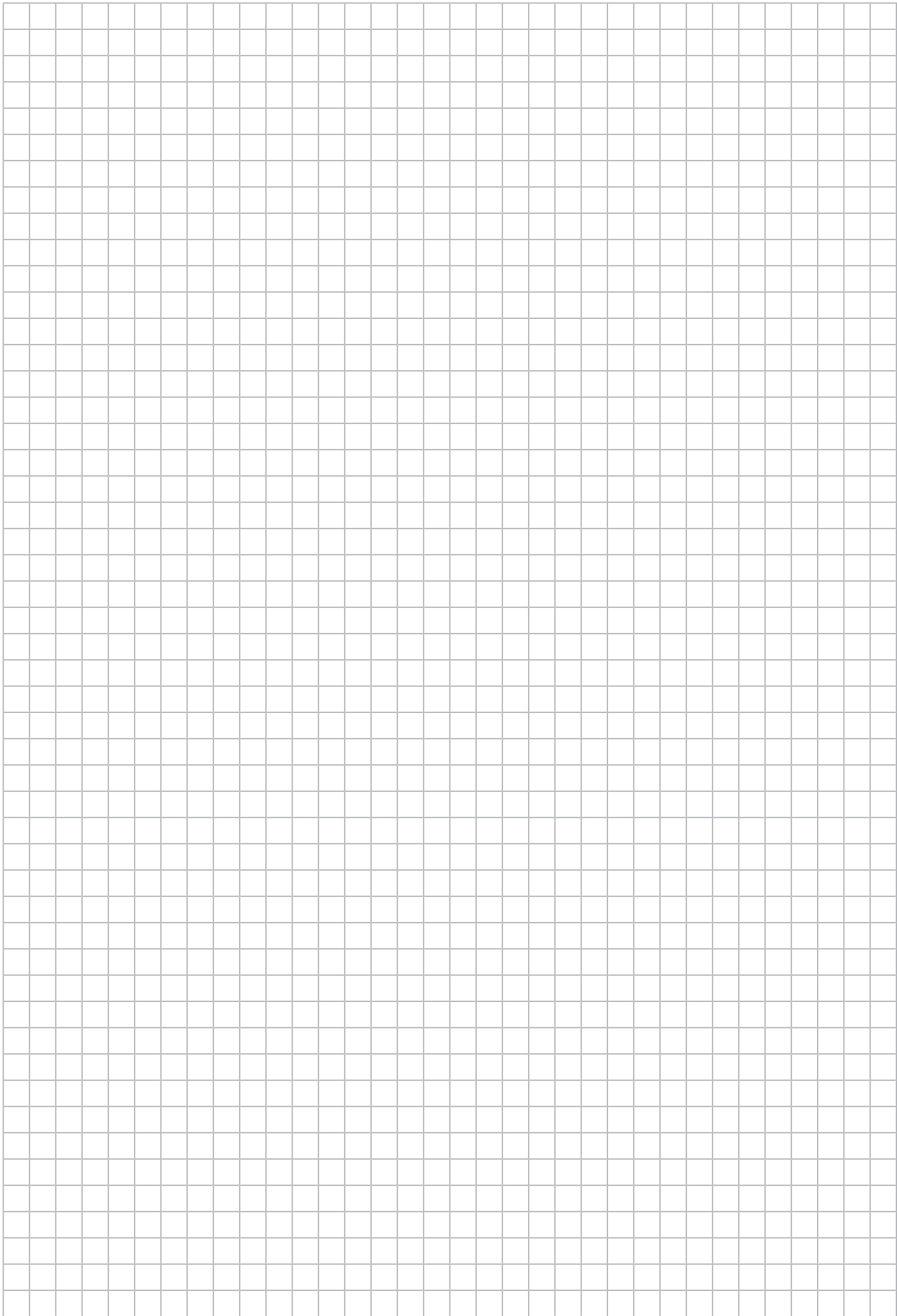
[3] Ambient temperature range

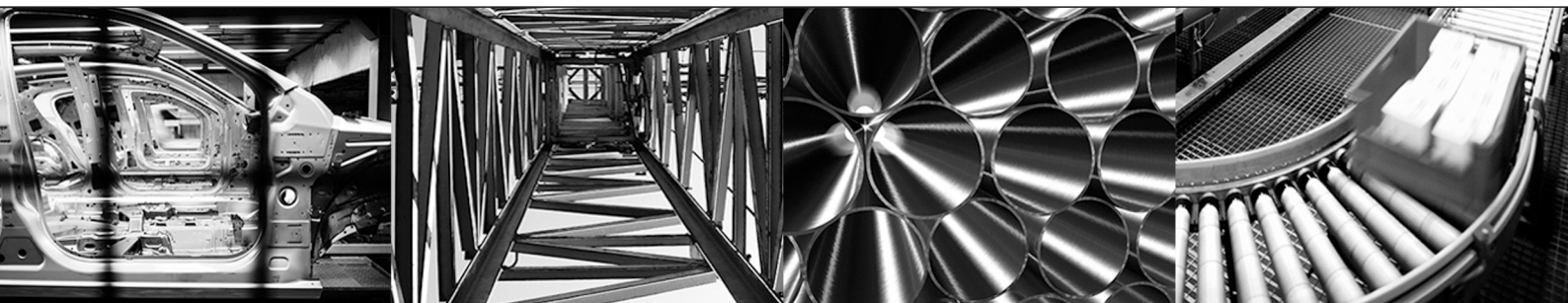
[4] Standard













SEW-EURODRIVE
Driving the world

SEW
EURODRIVE

SEW-EURODRIVE GmbH & Co KG
Ernst-Blickle-Str. 42
76646 BRUCHSAL
GERMANY
Tel. +49 7251 75-0
Fax +49 7251 75-1970
sew@sew-eurodrive.com
→ www.sew-eurodrive.com