

SK-400 Drive Unit — Spare Parts List

Assembly: SK-400 drive unit, motor to gearbox

Source documents: Drawing SK400-GB-012 rev D (2026-09-08) · Parts list SK400-GB-000 rev D (ERP export 2026-09-10) · Supplier datasheet NK-DS-42 edition 2025-11

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1. Scope and how to use this list

This document lists every item in parts list SK400-GB-000 rev D, keyed to the balloon numbers on assembly drawing SK400-GB-012 rev D, and identifies which items are wear parts to keep in stock.

All nine ballooned positions were cross-checked item-for-item: part numbers and quantities agree between SK400-GB-012 rev D and SK400-GB-000 rev D, with no discrepancy. Seven further items in SK400-GB-000 rev D carry **no balloon** — they are internal gearbox and joint-hardware parts that are not detailed on sheet 1/1 of SK400-GB-012. They are shown with "—" in the Balloon column and must be ordered by item number. Where such a part clearly belongs to a ballooned joint, that joint is named in the Description; this is an engineering interpretation for ordering convenience, **not** a reference printed on the drawing.

When ordering, always quote the item number and the drawing revision (rev D). Balloon numbers are valid only for the revision of the drawing on which they appear.

2. Assembly overview — balloon positions

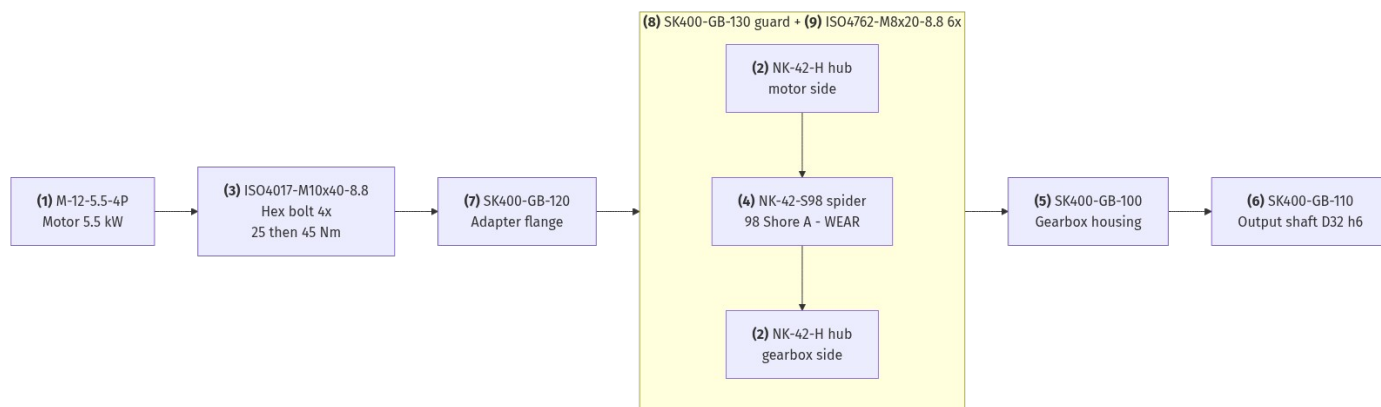


Figure 1 — SK-400 driveline, balloon positions per SK400-GB-012 rev D. Overall length 606 mm; distance between coupling hubs $E = 18 \text{ mm} \pm 0.5$ (drawing note 3, confirmed by NK-DS-42 §1). The spider must sit without axial preload.

3. Complete parts list (SK400-GB-000 rev D, keyed to SK400-GB-012 rev D)

Balloon	BOM line	Item no.	Description	Material / grade	Qty	Unit	Supplier	Class
1	4	M-12-5.5-4P	Motor M-12, 5.5 kW, 4-pole, IE3, frame 132S	—	1	pcs	Motorwerk Tallinn OU	S
2	5	NK-42-H	Coupling hub $\varnothing 42$, bore 38H7, keyway	EN-GJS-400	2	pcs	Nordkupp AB	S
3	14	ISO4017-M10x40-8.8	Hex bolt M10 $\times$ 40, 8.8, zinc — motor to flange	8.8	4	pcs	Fastco	C
4	6	NK-42-S98	Spider, 98 Shore A, red	PU	1	pcs	Nordkupp AB	W
5	1	SK400-GB-100	Gearbox housing	EN-GJL-250	1	pcs	in-house	A
6	2	SK400-GB-110	Output shaft $\varnothing 32$ h6	42CrMo4 QT	1	pcs	in-house	A
7	3	SK400-GB-120	Adapter flange	S355J2	1	pcs	in-house	A
8	7	SK400-GB-130	Coupling guard, perforated	S235	1	pcs	in-house	A
9	8	ISO4762-M8x20-8.8	Socket head cap screw M8 $\times$ 20, 8.8, zinc — guard	8.8	6	pcs	Fastco	C
—	9	ISO4032-M10-8	Hex nut M10, property class 8 — motor joint (3)	8	4	pcs	Fastco	C
—	10	ISO7089-10-200HV	Plain washer 10, 200 HV — motor joint (3), 2 per bolt	200HV	8	pcs	Fastco	C
—	11	SK400-GB-140	Gearbox oil seal 35 $\times$ 52 $\times$ 7 — output shaft (6)	NBR	1	pcs	Sealtek	W
—	12	6207-2RS	Deep groove ball bearing 35 $\times$ 72 $\times$ 17, sealed both sides — output shaft (6)	—	2	pcs	ERP shows placeholder "Bearing supplier"	W

Balloon	BOM line	Item no.	Description	Material / grade	Qty	Unit	Supplier	Class
—	13	SK400-GB-150	Breather plug M16 × 1.5 — housing (5)	—	1	pcs	in-house	W
—	15	CLP-220	Gear oil ISO VG 220 CLP — housing (5)	—	2.4	l	ERP shows placeholder "Lubricant supplier"	W
—	16	SK400-GB-160	Drain plug M16 × 1.5, magnetic — housing (5)	—	1	pcs	in-house	C

Class key: **W** = wear part, replaced on a defined interval or condition · **C** = consumable, renew on reassembly · **S** = service part, replace on failure or damage · **A** = structural or made-to-order part, order against the drawing. Shaded rows are wear parts.

Bearing bore 35 mm and seal bore 35 mm are consistent with each other; the Ø32 h6 dimension on balloon 6 is the output shaft extension, not the bearing seat.

4. Wear parts — what to keep in stock

Three stock tiers are recommended. Tier 1 is the minimum holding for any site running one SK-400; tier 2 applies where unplanned downtime is expensive or more than one unit is installed; tier 3 is ordered against the drawing when needed.

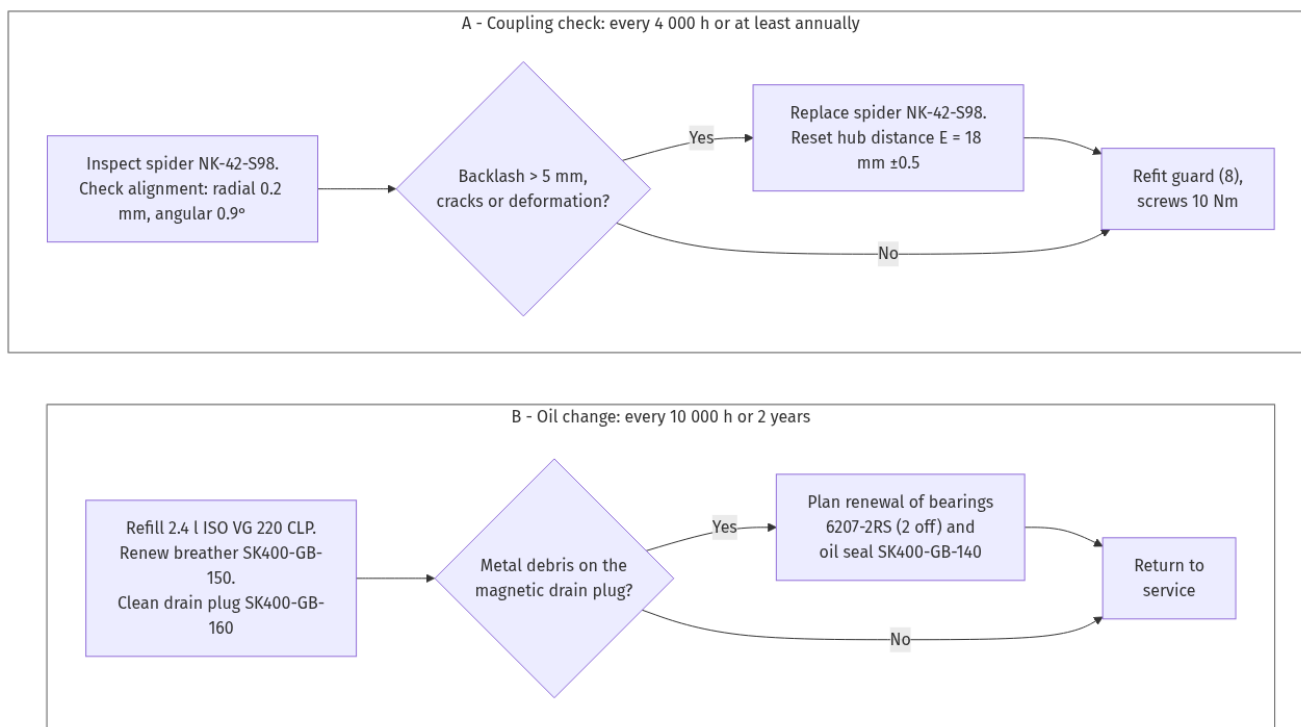


Figure 2 — Service clock: the two scheduled tasks that drive spare-part consumption.

Tier	Item no.	Part	Stock qty per unit	Replace when	Interval / criterion source
1	NK-42-S98	Coupling spider	1 (2 if 24/7 duty)	Torsional backlash > 5 mm at the hub circumference, or visible cracks / permanent deformation	Inspect every 4 000 h or at least annually — NK-DS-42 §4
1	CLP-220	Gear oil ISO VG 220 CLP	5 l (≈ 2 fills of 2.4 l)	Scheduled oil change	10 000 operating hours or 2 years — SK400-GB-012 note 5
1	SK400-GB-140	Gearbox oil seal 35 × 52 × 7	1	Any leak at the output shaft; always renew when the bearings are changed	Recommendation — no interval given in the source documents
1	ISO4762-M8x20-8.8	Guard screws	6 (one full set)	Lost, seized or damaged threads — the guard must be refitted before restart	SK400-GB-012 notes 2 and 6
2	6207-2RS	Output shaft bearings	2 (replace as a pair)	Noise, increased vibration, play, or at gearbox overhaul	Recommendation — no interval given in the source documents
2	SK400-GB-150	Breather plug	1	Renew at each oil change; a blocked breather pressurises the housing and drives oil past the seal	Recommendation — no interval given in the source documents
2	ISO4017-M10x40-8.8 / ISO4032-M10-8 / ISO7089-10-200HV	Motor mounting hardware set	4 / 4 / 8	Renew whenever the motor joint is broken and re-torqued	Recommendation; tightening 25 Nm then 45 Nm crosswise, lightly oiled — SK400-GB-012 note 1
2	NK-42-H	Coupling hub	1	Jaw damage after a spider has been run to destruction, or a worn bore / keyway	Condition-based
3	M-12-5.5-4P	Motor	0 — long-lead item; hold 1 per site only if downtime is critical	Electrical or bearing failure	Condition-based
3	SK400-GB-100 / -110 /	Housing, output shaft,	0	Damage	Order against SK400-GB-012 rev D

Tier	Item no.	Part	Stock qty per unit	Replace when	Interval / criterion source
	-120 / -130 / -160	adapter flange, guard, magnetic drain plug			

5. Ordering and identification notes

1. **Coupling parts — genuine only.** NK-DS-42 §4 requires replacement with a genuine NK-42-S98 spider. Substituting a different hardness changes the torsional characteristic of the drive.
2. **"Ø42" / "D42" is the coupling size, not a diameter you can measure.** Per NK-DS-42 the hub outer diameter is 85 mm and the maximum bore is 45 mm. Order by item number: NK-42-H and NK-42-S98.
3. **Alignment limits after any coupling work:** radial 0.2 mm, angular 0.9° (SK400-GB-012 note 4). The drawing limit is tighter than the NK-DS-42 §2 figure of 0.22 mm radial; **the drawing value governs.**
4. **Safety.** Disconnect and lock out power before any work on the coupling. The guard (8) must be refitted before restart (SK400-GB-012 note 6; NK-DS-42 §5).
5. **General tolerances** for in-house parts: ISO 2768-mK (SK400-GB-012 note 7).