

Automatic lubrication systems to

# Retrofit wind energy systems

Pre-assembled upgrade kits in OEM quality for every type of wind turbine



An extension of SKF's customized lubrication solutions for wind turbines, these retrofit kits provide a cost-effective, easy-to-install option for upgrading existing turbines to automatic lubrication.

Ordering the kit is simple for the customer, as requires minimal information to confirm its suitability. Installation of the Lincoln lubrication upgrade kit can be completed by SKF service personnel or by the customer's own maintenance staff.

SKF's offer includes lubrication kits for all wear points in a wind turbine:

- Pitch bearing
- Yaw bearing
- Open gear
- Main bearing
- Generator.

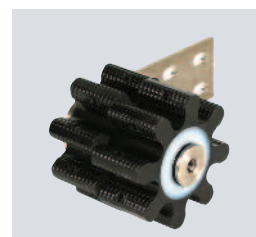
Developed for use on most onshore wind turbines up to two megawatts, the lubrication upgrade kit includes standardized, pre-assembled components, as well as various accessories and fittings. Kits with lubrication pinion are available for open gear applications.

Designed to increase productivity and minimize downtime, this kit reliably supplies lubricant to all connected lubrication points.

- **Increased efficiency and productivity**
- **Minimization of costly downtime resulting from lubrication related failures.**
- **Precise metering reduces the cost of lubricants.**
- **All lubrication points are reliably supplied with lubricant.**

Application	Number of lubrication points	Lubrication pump				Metering device	Lubrication pinion	Order code
		Pump type	Reservoir capacity [l]	Stirring paddle	Follower plate			
AC versions								
Main bearing	1-2	P203 4	•	-	1	-	-	644-37745-3
Main bearing	3-4	P203 4	•	-	1	SSV8	-	644-37745-4
Pitch bearing	3x6	P203 4	-	•	3	SSV6	-	644-37745-5
Pitch bearing	3x8	P203 4	-	•	3	SSV8	-	644-37745-6
Pitch bearing	3x10	P203 4	-	•	3	SSV10	-	644-67745-7
Pitch bearing	3x18	P203 4	-	•	3	SSV18	-	644-37756-2
Pitch open gear		P203 4	-	•	3	-	PU M12 C100	644-37745-9
Yaw bearing	2-8	P203 4	•	-	1	SSV8	-	644-37745-8
Yaw open gear		P203 4	•	-	1	-	*	644-37756-1
Generator	1-3	P401 2	•	-	1	SSV6	-	650-37715-8
DC versions								
Main bearing	1-2	P203 4	•	-	1	-	-	644-37756-4
Main bearing	3-4	P203 4	•	-	1	SSV8	-	644-37756-9
Pitch bearing	3x6	P203 4	-	•	3	SSV6	-	644-37759-2
Pitch bearing	3x8	P203 4	-	•	3	SSV8	-	644-37759-3
Pitch bearing	3x10	P203 4	-	•	3	SSV10	-	644-67759-4
Pitch bearing	3x18	P203 4	-	•	3	SSV18	-	644-37759-5
Pitch open gear		P203 4	-	•	3	-	PU M12 C100	644-37759-7
Yaw bearing	2-8	P203 4	•	-	1	SSV8	-	644-37759-6
Yaw open gear		P203 4	•	-	1	-	*	644-37759-8
Generator	1-3	P401 2	•	-	1	SSV6	-	650-37724-2

\* A lubrication pinion for yaw open gear applications has to be ordered separately. All upgrade kits include the necessary fittings like tubings, connectors, adaptors or couplings. Mounting material like screws or mounting plates is not included. All components can be ordered individually if required.



Application	Description	Designation	NLGI consistency class	Operating temperature
Main bearing	Extreme pressure low temperature grease	LGWM 1	1	-30 to +110 °C (-20 to +230 °F)
Main bearing	High load, wide temperature grease	LGWM 2	1-2	-40 to +110 °C (-40 to +230 °F)
Main bearing	High load, extreme pressure grease	LGEP 2	2	-20 to +110 °C (-5 to +230 °F)
Blade / Yaw bearing	Wind turbine blade and yaw grease	LGBB 2	2	-40 to +120 °C (-40 to +250 °F)
Generator	High performance, high temperature grease	LGHP 2	2-3	-40 to +150 °C (-40 to +300 °F)



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