

**LUBRICATION OF OPEN GEARS**



*Brammen pushers*

*Ball race of a pug mill mixer*

Open gears used in industry require special lubricants that provide an excellent performance even in extreme conditions. The spur drive gears of slab pushing systems, rotary kilns, cement plants, etc., are operated under extreme pressure. Given these forces, the gear wheels, spur gear units (with straight or helical gearing) are exposed to very high loads.

The lubricant plays an important role ensuring a smooth continuous operation despite the massive loads.

**Lubricants for optimal operation of open gears:**

- 🌿 High content of solid lubricants
- 🌿 Strong adhesion capability
- 🌿 High resistance to pressure
- 🌿 Environmentally safe

**This leads to:**

- 🌿 Reduction of the wear on the profiles of the teeth
- 🌿 Increased efficiency by reducing the friction
- 🌿 Silent running of the gears
- 🌿 Low environmental pollution

IGRALUB Products		RailLub 30/09 or 30/15	RailLub 90/09 or 90/15	HeadLub oder HL 90	Gear-RackLub	GearLub	PasteLub 10/12	PasteLub R	CeramLub 35 purple	BSS Spray
<b>Solid lubricant content</b>	<b>%</b>	>10	>10	>30	>15	>15	>30	>25	>30	>30
	<i>Penetration NLGI</i>									
	265-295						🌿			🌿
	310-340									
	355-385							🌿		
<b>Viscosity: Penetration (0.1 mm) NLGI</b>	400-430	🌿	🌿	🌿	🌿	🌿				
	445-475	🌿	🌿							
	1600°									
	1200°									
	550°									
	200°	🌿	🌿	🌿	🌿	🌿	🌿	🌿	🌿	🌿
	100°									
	80°									
	-20°									
	-30°									
	<-35°									
<b>Biodegradable</b>		🌿	🌿	🌿	🌿	🌿	🌿	🌿	🌿	🌿



*Rack rail*