



# **LUBCON® Service for the Wood Working Industry**



**Friction Optimized Lubricants for the Lubrication of  
Machines and Processing Plants in the Wood Industry**

# LUBCON® Service for the Wood Working Industry



## Safety and Efficiency with High-Performance Lubricants Under Extreme Conditions

Shorter through-put times, faster and more precise processes and more complex production procedures increasingly demand significantly improved high-performance lubricants. Today, low fuel and energy consumption, long lifecycles and optimized energy efficiency play an ever increasing part in modern manufacturing. **LUBCON** assists you all around the world in selecting appropriate lubricants and their availability.

**LUBCON** products are used at lumber yards, in further processing steps through to the manufacture of furniture and other finished products. Especially with the production of MDF, PB, CB or even the associated lamination and surface treatment, higher pressures and temperatures are achievable whilst reducing energy consumption (CPS) through the use of **LUBCON's** specialized products.

Based on special high-speed greases with a potential speed of 3 million ndm, it is possible to open up new processing opportunities of surfaces and edges thereby achieving faster through-put times and higher lot sizes. New technologies such as thermally stable products ( $> 300^{\circ}\text{C}$ ) are used in compression plants and presses. Moreover, all products come with optimized friction significantly reducing driving power and electricity consumption.

## Forming the Future with LUBCON's Specialized Lubricants

**LUBCON** provides a wide range of specialized lubricants which meet the performance requirements of the wood working industry. Gear oils with expertly blended additives, cleaning agents and preservatives plus numerous greases and oils combined with lubrication systems made by **LUBCON** are available all around the world and cover all tribological requirements of the wood working industry. Our specially refined high-performance lubricants can be used for numerous applications and increase manufacturing reliability and performance.

**LUBCON** products are recommended and used by OEMs in the field of wood treatment, production of semi-finished products, recycling of residual wood through to double belt presses and laminating presses. Lubricants by **LUBCON** ensure a long lifetime based on their excellent wear protection and therefore they safeguard plant availability and utilization.

We assist you not only in selecting the appropriate lubricants but may help you in identifying your exact requirements and implementing the best solution. Our technical service team will be available at all times both to OEMs and end users.

## Machinery and Systems for Woodworking Production of Semi-Finished Products ▪ Recycling of Residual Wood

Area/ Machines	Applications	Temperature range	Lubricant Type	Products	
Roundwood yard	Gears - oil lubricated	Open	up to +60 °C	Oil	Turmogear®oil PE Series
		Enclosed	up to +60 °C	Oil	Turmogear®oil PE Series
			up to +160 °C	Oil	Turmopol®oil 20 HD
	Gears - grease lubricated	up to +60 °C	Grease spray	Grizzlygrease® No. 1	
Sawmill	Open	up to +60 °C	Fluid grease	Turmopol®grease 00	
	Enclosed	up to +160 °C	Fluid grease	Turmogear®grease N 00 Y	
Conveyors	Pitch drives	up to +60 °C	Grease spray	Grizzlygrease No. 1	
		up to +60 °C	Grease	Grizzlygrease No. 1	
	Guide pillars		Paste	Turmopast® TAS LMI	
	Ball screws		Grease	Thermoplex® 2 TML	
	Linear guides		Grease	Thermoplex® LC 302 EP	
	Guide ways		Oil	Turmofluid® ED 13	
			Sliding lacquer	Turmolyb® MDC	
			Sliding lacquer	Turmopast® TF	
Side trimming machines, separating and segmenting machines, planing machines	Drive chains/ conveyor chains	up to +150 °C	Oil	Turmofluid® ED 13	
			Spray	LUBCON® 4S-Fluid	
		up to +240 °C	Oil	Turmofluid® 40 B	
			Oil	Turmofluid® 300 OM	
Crushing, cutting, chipping machines and mills	Highspeed spindle bearings	up to +70 °C	Grease	Turmogrease® Highspeed L 252	
	Rolling bearings	up to +80 °C	Grease	Turmogrease® L 802 EP plus	
		high speed		Grease	Thermoplex® 2 TML special
			up to +120 °C	Grease	Turmogrease® PU 702
			Grease	Thermoplex® 2 TML	
	Rolling bearings	up to +160 °C	High temperature grease	Sintono® GPE 703	
		medium speed	up to +160 °C	High temperature grease	Turmogrease® Hitemp 2 A-F
	Wood steaming, wood drying, impregnation plants		up to +80 °C	Grease	Turmogrease® CAK 4002
		up to +120 °C	Grease	Turmogrease® PHS 1002	
		up to +160 °C	High temperature grease	Turmogrease® NBI 300	
		up to +160 °C	High temperature grease	Sintono® MEGA 2	
				Turmotemp® II/400 KL	

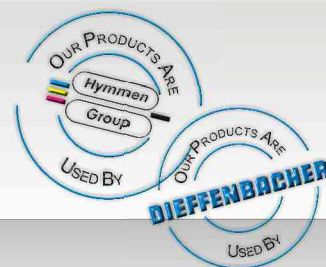


# Machines and Plants for the Industrial Wood Processing



Area/Machines	Applications	Requirements	Products
<b>Sawing machines, milling machines, planing machines</b>	Spindle bearings	<ul style="list-style-type: none"> <li>high speed</li> </ul>	<b>Turmogrease® Highspeed L 252</b> <b>Thermoplex® 2 TML special</b>
	Enclosed gears	<ul style="list-style-type: none"> <li>heavy load</li> <li>high speed</li> </ul>	<b>Turmopol® grease 00</b> <b>Turmogear® oil PE Series</b>
<b>Profiling, sizing and edge banding machines (double-end profiler)</b>	Spindle bearings	<ul style="list-style-type: none"> <li>high speed</li> </ul>	<b>Turmogrease® Highspeed L 252</b> <b>Sintono® Mega 2</b> <b>Turmsilon® grease mittel TF</b>
	Glue roll ball bearings	<ul style="list-style-type: none"> <li>high temperature</li> </ul>	
<b>Processing centres (CNC)</b>  <b>Automatic drilling machine (CNC)</b>	Pressure roll bearings	<ul style="list-style-type: none"> <li>high temperature</li> </ul>	<b>Sintono® GPE 703</b> <b>Thermoplex® LC 302 EP</b> <b>Thermoplex® 2 TML</b> <b>Turmolyb® MDC</b> <b>LUBCON 4S-FLUID</b>
	Linear guides	<ul style="list-style-type: none"> <li>high feed rates</li> </ul>	
	Support chain bearings	<ul style="list-style-type: none"> <li>heavy load</li> </ul>	
	Support surface lubrication	<ul style="list-style-type: none"> <li>no sticking of dust</li> </ul>	
	Main spindles	<ul style="list-style-type: none"> <li>high speed</li> </ul>	
	Linear guides	<ul style="list-style-type: none"> <li>high feed rates</li> </ul>	
<b>Grinding machines</b>	Ball screws	<ul style="list-style-type: none"> <li>high speed</li> </ul>	<b>Turmogrease® Highspeed L 252</b> <b>Thermoplex® LC 302 EP</b> <b>Thermoplex® ALN 1001/00</b> <b>Turmopast® TF</b>  <b>Thermoplex® 2 TML</b> <b>Turmogrease® LC 252</b> <b>Turmogrease® Highspeed L 251</b> <b>Turmopol® grease 00</b> <b>Thermoplex® 2 TML</b>
	Machine tool retainers	<ul style="list-style-type: none"> <li>no sticking of dust</li> </ul>	
	Powered tools	<ul style="list-style-type: none"> <li>high speed</li> <li>media resistant</li> <li>high speed</li> </ul>	
	Drilling unit gears	<ul style="list-style-type: none"> <li>heavy load</li> </ul>	
	Guide ways	<ul style="list-style-type: none"> <li>no sticking of dust</li> </ul>	
	Pneumatic cylinders		
<b>Cycle presses, gluing presses, laminating machines</b>	Linear guides	<ul style="list-style-type: none"> <li>high temperature</li> <li>no sticking of dust</li> </ul>	<b>Sintono® Mega 2</b> <b>Turmolyb® MDC</b> <b>Turmopast® TF</b>  <b>Turmofluid® HYM 1</b> <b>Turmopast® TAS FM</b>
	Release agent for pressing area Hot plates	<ul style="list-style-type: none"> <li>media resistant</li> <li>high temperature</li> </ul>	
<b>Machines for surface treatment</b>	Conveyor chains	<ul style="list-style-type: none"> <li>media resistant</li> </ul>	<b>Turmofluid® 300 OM</b> <b>Turmofluid® 460</b>
<b>Picking system, roller conveyor, warehouse management</b>	Conveyor roll bearings	<ul style="list-style-type: none"> <li>no sticking of dust</li> </ul>	<b>Turmogrease® L 802 EP plus</b>  <b>Turmofluid® 300 OM</b> <b>Turmofluid® 40 B</b>  <b>Turmolyb® MDC</b> <b>Turmolyb® PSP</b> <b>Turmopol® grease 00</b> <b>Turmogear® oil PE Series</b>
	Overhead conveyor bearings	<ul style="list-style-type: none"> <li>high speed</li> </ul>	
	Conveyor chains	<ul style="list-style-type: none"> <li>no sticking of dust</li> </ul>	
	Guide ways, racks and pinions	<ul style="list-style-type: none"> <li>heavy load</li> </ul>	
	Enclosed gears	<ul style="list-style-type: none"> <li>high speed</li> </ul>	

# Continuous Presses ▪ Double Belt Presses Laminating Presses



Area/Machines	Applications	Requirements	
Continuous double belt	CLS steelbelt roller bars	<ul style="list-style-type: none"> <li>high temperature</li> <li>low evaporation</li> </ul>	<b>Turmowood® oil 1</b>
	CLS bending rod chains	<ul style="list-style-type: none"> <li>high temperature</li> <li>low carbon and good cleaning properties</li> </ul>	<b>Turmowood® oil 2</b>
	Cleaner for carpet chains	<ul style="list-style-type: none"> <li>cleaning and lubrication during operation</li> </ul>	<b>Turmowood® oil MKP Cleaner</b>
Continuous laminating press	Drum bearings		<b>Turmotemp® II 400 RS</b>
<b>Further applications</b>			
All kinds of sliding agents (can, spray)			<b>Turmofluid® ED 13</b> <b>LUBCON® 4S Fluid</b>
Dry lubricants			<b>Turmopast® TF</b> <b>Turmoilyb® WG</b>
Release agent (veneer presses)			<b>Turmofluid® HYM 1</b>
Teflon spray			<b>Turmopast® TF</b>
Compressor oil			<b>Turmofluid® MB-DL</b>
Hydraulic oil			<b>Turmofluid® HLP</b>
Assembly pastes			<b>Turmopast® NBI 2 white</b> <b>Turmopast® MA 2</b>
Cleaner			<b>Bio Aktiv V 101</b>
General maintenance products			<b>Maintenance Kit</b>



LUBCON provides the OEM of the woodworking industry with a complete product range. All recommended products are listed in the lubrication chart of your equipment.

# LUBCON® Service for the Wood Working Industry



LUBCON Products	Colour/Structure	Type of oil	Service temperature range (°C)	Density g/ml at +20 °C (g/cm³)	Base oil viscosity DIN 51562 (mm²/s) +40 °C/+100 °C	Flash point DIN ISO 2592 (°C)	Description
<b>Oils</b>							
<a href="#">Turmofluid® 460</a>	yellow/transparent	Mineral	-20 up to +140	0,895	460/36	>+250	Oil for chains, enclosed gears, rolling and sliding bearings
<a href="#">Turmofluid® 40 B</a>	yellowish/transparent	Ester/SHC	-40 up to +250	0,915	270/32	+280	Fully synthetic, anti-ageing chain oil, extremely adhesive
<a href="#">Turmogear® oil PE Series</a>	light-coloured/transparent	Ester/SHC	-20 up to +180	0,913-0,955	68-680	>+220	Oil for gears, rolling bearings and chains
<a href="#">Turmopol® oil 20 HD</a>	yellow-orange/transparent	Polyglycol	-30 up to +220	1,004	110/20	>+220	High temperature oil for gears under extreme loads
<b>Greases</b>		<b>Base oil/Thickener</b>	<b>Service temperature range (°C)</b>	<b>NLGI Class DIN 51818</b>	<b>Base oil viscosity DIN 51562 (mm²/s) +40 °C/+100 °C</b>	<b>Speed factor (mm · min<sup>-1</sup>) ball bearings</b>	<b>Description</b>
<a href="#">Sintono® GPE 703</a>	light beige-yellow/pasty	Ester/PU	-40 up to +180	3	70/10,3	1.300.000	Grease for extreme applications with high resistance to media
<a href="#">Sintono® Mega 2</a>	light beige-reddish/pasty	PFPE/PHS	-30 up to +260	2	500/46,5	350.000	High temperature grease for rolling bearings
<a href="#">Thermoplex® 2 TML</a>	yellowish-transparent/pasty	Ester/Li	-35 up to +160	2	55/9	1.300.000	Fully synthetic high load grease for long-term applications
<a href="#">Thermoplex® 2 TML special</a>	yellow/pasty	Ester/Li	-70 up to +130	2	20/6	1.600.000	High performance grease for high speeds and low temperatures
<a href="#">Thermoplex® ALN 1001/00</a>	light beige/fluid	PAO/inert organic	-40 up to +150	00	100/13,4	- -	Gear fluid with high resistance to temperature and ageing
<a href="#">Thermoplex® LC 302 EP</a>	beige/pasty	Ester/Li-Ca	-50 up to +150	2	30/8,3	1.800.000	High load grease for high speeds and very good resistance to media
<a href="#">Turmogear® grease N 00 Y</a>	yellowish, beige/fluid	SHC/PU	-40 up to +180	00	100/13,7	- -	Gear fluid with high resistance to media and pressure stability
<a href="#">Turmogrease® CAK 4002</a>	brown/pasty	Mineral/Ca Complex	-20 up to +150	2	400/32	300.000	Long-term grease with extreme water resistance and high load carrying capacity
<a href="#">Turmogrease® Highspeed L 252</a>	beige/pasty	PAO, Ester/Li special	-50 up to +120	2	25/6	2.200.000	High speed spindle bearing grease with extreme ageing resistance
<a href="#">Turmogrease® Highspeed L 251</a>	beige/pasty	PAO, Ester/Li special	-50 up to +120	1	25/6	- -	High speed grease for bearings and helical gears
<a href="#">Turmogrease® Hitemp 2 A-F</a>	rose-coloured-beige/pasty	PPE/PHS	0 up to +260	2	110/15	650.000	High temperature grease for extreme applications
<a href="#">Turmogrease® L 802 EP plus</a>	light brown/pasty	SHC, Mineral/Li special	-35 up to +140	2-3	85/12	1.000.000	Universal grease with very high pressure stability and resistance to vibrations and ageing
<a href="#">Turmogrease® LC 252</a>	light brown/pasty	SHC, Ester/Li special Ca	-40 up to +120	2	25/5,8	>1.800.000	High speed spindle bearing grease with high resistance to media
<a href="#">Turmogrease® NBI 300</a>	beige, opaque/pasty	Ester/PHS	-40 up to +180	1-2	100/14	750.000	High temperature grease for rolling bearings, e. g. electric motor bearings
<a href="#">Turmogrease® PHS 1002</a>	yellowish/pasty	Mineral, SHC/PU	-40 up to +160	2	105/12,4	700.000	Long-term grease for rolling and journal bearings, resistant to media
<a href="#">Turmogrease® PU 702</a>	light beige-yellowish/pasty	Ester/PU	-40 up to +180	2	70/10,7	1.300.000	Long-term grease for rolling and journal bearings
<a href="#">Turmopol® grease 00</a>	yellowish/fluid	Polyglycol/Li	-40 up to +130	00	220/42	- -	Gear grease for high loads and ageing resistance
<a href="#">Turmotemp® II/400 KL</a>	white/pasty	PFPE/PTFE	-30 up to +260	2	400/38	300.000	High temperature grease for extreme applications and high resistance to media
<a href="#">Turmsilon® grease mittel TF</a>	light brown/pasty	Silicone/PHS	-40 up to +230	2	200/45	200.000	Silicone grease for low and high temperatures and high resistance to water
<b>Pastes/Sliding lacquers</b>		<b>Base oil/Thickener</b>	<b>Service temperature range (°C)</b>	<b>Available as aerosol</b>	<b>Base oil viscosity DIN 51562 (mm²/s) +40 °C/+100 °C</b>	<b>Corrosion protection</b>	<b>Description</b>
<a href="#">Turmolyb® MDC</a>	black/- -	MoS2/solvent	-180 up to +450	yes	- -	yes	Dry sliding lacquer based on MoS <sub>2</sub> , quick drying
<a href="#">Turmolyb® PSP</a>	black grey/pasty	Synthetic oil/Solid lubricant	-40 up to +450	yes	200	yes	Multipurpose assembly paste with solid lubricants
<a href="#">Turmopast® NBI 2 white</a>	light beige/pasty	Ca complex/PTFE	-30 up to +150	no	100	yes	Multipurpose lubricating paste against friction and tribo-corrosion
<a href="#">Turmopast® TAS FM</a>	light-coloured, white/pasty	Synthetic oil/inorganic	-40 up to +1200	no	200	yes	Multipurpose metal free assembly paste for high temperature applications
<a href="#">Turmopast® TAS LMI</a>	white/pasty	Polyglycol/inorganic	-40 up to +1200	no	200	yes	High temperature assembly paste with H1 food grade registration
<a href="#">Turmopast® TF</a>	white/- -	PTFE/solvent	-180 up to +260	yes	- -	yes	Dry sliding lacquer based on PTFE, quick drying
<b>Sprays</b>		<b>Base oil/Thickener</b>	<b>Service temperature range (°C)</b>	<b>Other packaging available</b>	<b>Base oil viscosity DIN 51562 (mm²/s) +40 °C/+100 °C</b>	<b>Corrosion protection</b>	<b>Description</b>
<a href="#">Grizzlygrease® No. 1</a>	brown/pasty	Min/Li-Ca special	-30 up to +150	yes	800/40	yes	Solid-free grease for gear drives with high pressure stability
<a href="#">LUBCON® 4S-FLUID</a>	yellowish/opaque	SHC, PTFE/- -	-50 up to +180	yes	80/- -	yes	Penetrating oil with PTFE for quick cleaning, lubricating and high protection
<a href="#">Turmofluid® 300 OM</a>	green/transparent	synthetic/- -	-5 up to +240	yes	3750/305	yes	Lubricating oil for open drives and chains, resistant to pressure and ageing
<a href="#">Turmofluid® ED 13</a>	clear/transparent	synthetic/- -	-45 up to +150	yes	20/- -	yes	Low viscosity oil with high penetrating properties, also for fine mechanics
<a href="#">Turmofluid® HYM 1</a>	clear/transparent	synthetic/- -	-30 up to +220	yes	46/- -	yes	Silicone-free release agent





If you would like to know more about our **Product Range**  
and the **Services** we offer, please contact us...

#### **LUBRICANT CONSULT GMBH**

Lubricants • Lubrication Systems

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