



LUBCON® Service for the Wood Working Industry



**Friction Optimized Lubricants for the Lubrication of
Machines and Processing Plants in the Wood 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°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 |
| Sawmill | Gears - grease lubricated | Open | up to +60 °C | Fluid grease | Grizzlygrease® No. 1 |
| | | Enclosed | up to +60 °C | Fluid grease | Turmopol®grease 00 |
| | | | 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 | |
| Side trimming machines, separating and segmenting machines, planing machines | Linear guides | | Grease | Thermoplex® LC 302 EP | |
| | Guide ways | | Oil | Turmofluid® ED 13 | |
| | | | Sliding lacquer | Turmolyb® MDC | |
| | | | Sliding lacquer | Turmopast® TF | |
| | 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 | | |
| Highspeed spindle bearings | up to +70 °C | Grease | Turmogrease® Highspeed L 252 | | |
| Crushing, cutting, chipping machines and mills | 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 | |
| Wood steaming, wood drying, impregnation plants | 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 | |
| | | 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 |
|--|---|---|---|
| Sawing machines, milling machines, planing machines | Spindle bearings | <ul style="list-style-type: none"> high speed | Turmogrease® Highspeed L 252 Thermoplex® 2 TML special |
| | Enclosed gears | <ul style="list-style-type: none"> heavy load high speed | Turmopol® grease 00 Turmogear® oil PE Series |
| Profiling, sizing and edge banding machines (double-end profiler) | Spindle bearings | <ul style="list-style-type: none"> high speed | Turmogrease® Highspeed L 252 Sintono® Mega 2 Turmsilon® grease mittel TF |
| | Glue roll ball bearings | <ul style="list-style-type: none"> high temperature | |
| | Pressure roll bearings | <ul style="list-style-type: none"> high temperature | Sintono® GPE 703 Thermoplex® LC 302 EP Thermoplex® 2 TML Turmolyb® MDC LUBCON 4S-FLUID |
| | Linear guides | <ul style="list-style-type: none"> high feed rates | |
| Support chain bearings Support surface lubrication | <ul style="list-style-type: none"> heavy load no sticking of dust | | |
| Processing centres (CNC) Automatic drilling machine (CNC) | Main spindles | <ul style="list-style-type: none"> high speed | Turmogrease® Highspeed L 252 Thermoplex® LC 302 EP |
| | Linear guides | <ul style="list-style-type: none"> high feed rates | |
| | Ball screws | <ul style="list-style-type: none"> high speed | Thermoplex® ALN 1001/00 Turmopast® TF |
| | Machine tool retainers | <ul style="list-style-type: none"> no sticking of dust | |
| | Powered tools | <ul style="list-style-type: none"> high speed media resistant | Thermoplex® 2 TML Turmogrease® LC 252 |
| | | Drilling unit gears | |
| Grinding machines | Guide ways Pneumatic cylinders | <ul style="list-style-type: none"> no sticking of dust | Thermoplex® LC 302 EP Turmopast® TF Turmopast® NBI 2 white |
| Cycle presses, gluing presses, laminating machines | Linear guides | <ul style="list-style-type: none"> high temperature no sticking of dust | Sintono® Mega 2 Turmolyb® MDC Turmopast® TF |
| | Release agent for pressing area Hot plates | <ul style="list-style-type: none"> media resistant high temperature | Turmofluid® HYM 1 Turmopast® TAS FM |
| Machines for surface treatment | Conveyor chains | <ul style="list-style-type: none"> media resistant | Turmofluid® 300 OM Turmofluid® 460 |
| Picking system, roller conveyor, warehouse management | Conveyor roll bearings Overhead conveyor bearings | <ul style="list-style-type: none"> no sticking of dust | Turmogrease® L 802 EP plus |
| | Conveyor chains | <ul style="list-style-type: none"> high speed no sticking of dust | |
| | Guide ways, racks and pinions | <ul style="list-style-type: none"> heavy load | Turmofluid® 300 OM Turmofluid® 40 B |
| | Enclosed gears | <ul style="list-style-type: none"> high speed | Turmolyb® MDC Turmolyb® PSP Turmopol® grease 00 Turmogear® oil PE Series |

Continuous Presses ▪ Double Belt Presses Laminating Presses



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



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

Gutenbergstraße 13 • 63477 Maintal • GERMANY • P.O. Box 200 240 • 63469 Maintal • GERMANY
Tel.: +49 6109/7650-0 • Fax: +49 6109/7650-51 • Email: webmaster@lubcon.com • www.lubcon.com

This brochure only contains product information. For specific information please refer to our technical data and safety data sheets. The indications made represent the present state of development and knowledge of **LUBRICANT CONSULT GMBH**, which is subject to change without notification. The products are subject to severe controls of manufacture and comply in full with the specifications set forth by our company, but due to the multitude of different influencing factors, we cannot assume any warranty for the successful application in each individual case. Therefore, we recommend performing field tests. We strictly refuse any liability.